10.10-06

Attorney Docket No.: 19459-003001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plicant: Baxter et al.

Art Unit :

1631

Patent No.: 6,965,850

Examiner:

Marjorie A. Moran

Issue Date: November 15, 2005

Confirmation No.: 7561

Serial No.: 09/281,717

Filed

: March 30, 1999

Title

: METHODS FOR MODULATING NUCLEAR RECEPTOR COACTIVATOR

BINDING

Attention: Certificate of Correction Branch

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Certificate

OCT 1 2 2006

of Correction

REQUEST FOR CERTIFICATE OF CORRECTION OF OFFICE MISTAKE UNDER 37 C.F.R. § 1.322

Applicants hereby request that a Certificate of Correction be issued for the aboveidentified patent in accordance with the following remarks and designation on attached form PTO/SB/44 and accompanying pages.

Applicants respectfully submit that Appendices 1, 2, and 3, found at pages 74-258 of the specification of application Serial No. 09/281,717, were omitted from the issued patent U.S. Patent No. 6,965,850. Appendix 1 is found at pages 74-149 inclusive. Appendix 2 is found at pages 150-222 inclusive. Appendix 3 is found at pages 223-258 inclusive.

Applicants attach hereto a copy of pages 74-258 of the application specification as filed, stamped with the Patent and Trademark Office's (PTO) own date-stamp and serial number.

Since the omission from the issued patent is a result of PTO error, Applicants believe that immediate correction of the patent is warranted.

CERTIFICATE OF	MAILING BY	EXPRESS MAIL
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Express Mail Label No. EV 744 620 320 US

Date of Deposit

OCT 16 2006

Applicant: Baxter et al.

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Issued: November 15, 2005

Serial No.: 09/281,717 Filed: March 30, 1999

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No fees are believed owing with this filing. However, should the Commissioner determine otherwise, the Commissioner is hereby authorized to charge Applicants' Deposit Account No. 06-1050 (Ref. 19459-003001) for any charges or credits.

Respectfully submitted,

Attorney Docket No.: 19459-003001

and 6 A. Ber

Date: October 5, 2006

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Atomic Coordinates for Human TR-B Complexed With T3, and a GRIP1 NR-box 2 Peptide

REMARK full length numbering 10 REMARK all residue names correct REMARK peptide sequence REMARK two molecules of TRB - CHAIN A and CHAIN B REMARK two molecules of T3 - CHAIN J and CHAIN K REMARK two molecules of GRIP-1 peptide - CHAIN X and CHAIN Y 15 REMARK chain X lies between A and B REMARK chain Y interacts with B only REMARK residues differing between A and B include: REMARK A 217 Glu, A 252 Gln, A 263 Lys (missing side chains) REMARK B 237 Ser, B239 His, B 394 Lys (missing side chains) REMARK additionally Gly 261, Gly 262 are not visible in chain A 20 REMARK residues differing between X and Y include: REMARK A 692 Arg REMARK additionally, residues Lys 688, Lys 689; Ser 697, Ser 698 REMARK are not visible in chain Y 7 25 LYS A 211 52.546 23.912 35.239 1.00 45.76 MOTA 1 N 36.586 1.00 43.42 6 2 LYS A 211 52.944 24.345 **ATOM** CA 1.00 35.68 6 LYS A 211 52.035 23.665 37.836 3 C MOTA 37.763 1.00 33.58 8 ATOM 4 O. LYS A 211 51.511 22.556 36.779 1.00 46.72 6 5 LYS A 211 52.610 25.825 ATOM CB 7 1.00 35.64 30 6 PRO A 212 51.678 24.182 39.199 N MOTA 6 7 PRO A 212 52.082 25.474 39.842 1.00 38.60 ATOM CD 6 8 23.379 40.166 1.00 38.35 CA PRO A 212 50.809 ATOM 24.194 41.440 1.00 38.95 6 9 PRO A 212 50.670 **ATOM** CB 41.255 10 ĊG PRO A 212 51.455 25.469 1.00 42.00 б ATOM 6 35 **ATOM** 11 С PRO A 212 49.433 23.097 39.594 1.00 38.78 48.920 23.949 38.802 1.00 34.64 8 PRO A 212 12 0 ATOM 7 48.901 21.948 40.014 1.00 40.31 13 N **GLU A 213** ATOM 39.529 1.00 43.87 6 ATOM 14 CA **GLU A 213** 47.609 21.419 **GLU A 213** 47.943 20.307 38.520 1.00 45.16 6 15 CB MOTA 40 20.708 37.601 1.00 47.60 6 16 . CG **GLU A 213** 49.125 ATOM 6 36.353 1.00 50.68 ATOM 17 CD **GLU A 213** 49.284 19.828 18 OE1 GLU A 213 49.355 18.547 36.474 1.00 59.18 8 **ATOM** 20.368 35.180 1.00 49.06 8 19 OE2 GLU A 213 49.356 MOTA 6 1.00 45.96 20 **GLU A 213** 46.711 20.988 40.747 ATOM C 1.00 43.13 8 45 21 **GLU A 213** 47.111 21.136 41.910 ATOM 0 PRO A 214 7 22 45.463 20.460 40.515 1.00 46.52 **ATOM** N 6 PRO A 214 44.985 20.184 39.148 1.00 46.44 MOTA 23 CD 41.596 1.00 47.52 6 **ATOM** 24 CA PRO A 214 44.447 20.124 40.816 1.00 45.40 6 25 PRO A 214 43.249 19.629 MOTA CB 50 **ATOM** 26 CG PRO A 214 43.588 19.674 39.327 1.00 49.89 6 6 42.625 1.00 45.70 **ATOM** 27 C PRO A 214 44.787 19.082 42.535 18.466 1.00 44.49 8 28 PRO A 214 45.816 ATOM 0 7 43.606 1.00 45.24 29 THR A 215 43.915 18.876 ATOM N ATOM 30 CA THR A 215 44.161 17.890 44.686 1.00 49.36 6 55 1.00 44.86 6 31 CB THR A 215 44.163 18.586 46.093 MOTA 46.728 1.00 52.26 8 MOTA 32 OG1 THR A 215 42.878 18.447 6 45.974 1.00 39.43 MOTA 33 CG2 THR A 215 44.514 20.031

42.934

16.995

44.667

THR A 215

	5	ATOM	35	0	THR	A	215	41.816	17.501	44.691		53.48	8
		ATOM	36	N	ASP	A	216	43.118	15.683	44.607		58.81	7
		ATOM	37	CA	ASP	Α	216	41.973	14.740	44.615		61.51	6
		ATOM	38	CB	ASP	Α	216	42.386	13.451	45.343	1.00	70.57	6
		MOTA	39	CG	ASP	A	216	42.399	12.283	44.475	1.00	78.07	6
	10	ATOM	40	OD1	ASP	A	216	41.532	12.161	43.586	1.00	82.31	8
		ATOM	41	OD2	ASP	Α	216	43.293	11.436	44.684	1.00	86.55	8
		ATOM	42	С	ASP	A	216	40.640	15.311	45.268	1.00	58.42	6
		MOTA	43	0	ASP	Α	216	39.598	14.840	44.924	1.00	56.85	8
		ATOM	44	N	GLU	Α	217	40.673	16.270	46.217	1.00	54.92	7
	15	ATOM	45	CA	GLU	Α	217	39.502	16.937	46.856	1.00	53.37	6
		ATOM	46	CB	GLU	A	217	39.943	17.459	48.216	1.00	51.02	6
		ATOM	47	С	GLU	Α	217	39.113	18.144	45.956	1.00	53.55	6
		ATOM	48	0	GLU	Α	217	37.905	18.394	45.695	1.00	54.33	8
		ATOM	49	N	GLU	Α	218	40.162	18.895	45.511	1.00	49.20	7
	20	ATOM	50	CA	GLU	Α	218	39.933	20.073	44.661	1.00	45.94	6
		ATOM	51	CB	GLU	Α	218	41.232	20.855	44.304	1.00	43.43	6
		ATOM	52	CG	GLU	Α	218	41.907	21.579	45.479	1.00	40.86	6
		ATOM	53	CD	GLU	Α	218	43.061	22.446	45.074	1.00	39.88	6
		ATOM	54	OE1	GLU	Α	218	43.895	22.019	44.232	1.00	37.61	8
1	25	ATOM	55	OE2	GLU	Α	218	43.183	23.583	45.599	1.00	34.01	8
IJ		ATOM	56	С	GLU	Α	218	39.249	19.647	43.390	1.00	44.71	6
Ð		ATOM	57	0	GLU	Α	218	38.302	20.291	42.964	1.00	45.31	8
[al-		ATOM	58	N	TRP	Α	219	39.720	18.553	42.797	1.00	44.02	7
, ej		ATOM	59	CA	TRP	Α	219	39.109	18.061	41.574	1.00	46.97	6
, ~! -	30	ATOM	60	CB	TRP	Α	219	39.799	16.793	41.074	1.00	48.42	6
, F		ATOM	61	CG	TRP	A	219	40.879	17.029	40.141	1.00	54.61	6
#1 1000		ATOM	62	CD2	TRP	Α	219	40.755	17.256	38.733	1.00	55.24	6
		ATOM	63	CE2	TRP	A	219	42.067	17.523	38.245	1.00	53.67	6
IJ		ATOM	64	CE3	TRP	Α	219	39.691	17.234	37.828	1.00	54.55	6
IJ	35	ATOM	65	CD1	TRP	Α	219	42.159	17.159	40.447	1.00	55.75	6
Ü		ATOM	66	NE1	TRP	A	219	42.895	17.485	39.339	1.00	54.43	7
Ϋ́		ATOM	67	CZ2	TRP	Α	219	42.330	17.851	36.895	1.00	52.54	6
<i>ا</i> ظ:		ATOM	68	CZ3	TRP	Α	219	39.943	17.535	36.509		55.17	6
		ATOM	69	CH2	TRP	A	219	41.239	17.820	36.029		55.59	6
	40	ATOM	70	С	TRP	A	219	37.646	17.743			47.32	6
		ATOM	71	0	TRP	Α	219	36.788	18.028	40.978		43.56	8
		ATOM	72	N	GLU	A	220	37.376	17.142	42.965		49.91	7
		ATOM	73	CA	GLU			36.021	16.769	43.316		53.57	6
		ATOM	74	CB	GLU			36.052	16.055	44.649		58.18	6
	45	ATOM	75	CG	GLU	Α	220	35.149	14.930	44.672		73.13	6
		ATOM	76	CD	GLU	A	220	35.735	13.935	45.442	•	80.06	6
		ATOM	77	OE1	GLU	A	220	36.886	13.575	45.173		82.12	8
		ATOM	78	OE2	GLU			35.078	13.478	46.378		82.78	8
		ATOM	79	С	GLU			35.161	18.026	43.381		50.51	6
	50	ATOM	80	0	GLU	А	220	33.991	18.010	42.995		49.94	8
		ATOM	81	N	LEU	Α	221	35.761	19.120	43.865		43.71	7
		ATOM	82	CA	LEU			35.047	20.398	43.951		42.81	6
		ATOM	83		LEU			35.935	21.510	44.510		39.21	6
		ATOM	84	CG	LEU			35.375	22.908	44.353		36.34	6
	55	ATOM	85		LEU			33.941	22.929	44.836		36.93	6
		ATOM	86		LEU			36.226	23.910	45.122		24.18	6
		ATOM	87	С	LEU			34.563	20.815	42.575		43.46	6
		ATOM	88	0	LEU	A	221	33.392	21.104	42.395	1.00	45.25	8

ATOM 90 CA ILE A 222 35.192 21.226 40.254 1 ATOM 91 CB ILE A 222 36.379 20.997 39.343 1 ATOM 92 CG2 ILE A 222 35.970 21.182 37.893 1 ATOM 93 CG1 ILE A 222 37.532 21.922 39.707 1 10 ATOM 94 CD1 ILE A 222 38.804 21.586 39.004 1 ATOM 95 C ILE A 222 34.067 20.365 39.735 1 ATOM 96 O ILE A 222 34.067 20.365 39.735 1 ATOM 97 N LYS A 223 34.301 19.058 39.750 1 ATOM 98 CA LYS A 223 34.301 19.058 39.750 1 ATOM 99 CB LYS A 223 33.316 18.100 39.276 1 15 ATOM 99 CB LYS A 223 33.316 18.100 39.276 1 ATOM 100 CG LYS A 223 32.741 15.631 39.227 1 ATOM 101 CD LYS A 223 32.741 15.631 39.227 1 ATOM 102 CE LYS A 223 31.798 13.318 39.430 1 ATOM 103 NZ LYS A 223 31.798 13.318 39.430 1 ATOM 104 C LYS A 223 31.900 11.985 40.106 1 20 ATOM 104 C LYS A 223 31.913 18.565 39.681 1 ATOM 105 O LYS A 223 30.936 18.323 38.984 1 ATOM 106 N THR A 224 30.602 19.792 41.378 1 ATOM 108 CB THR A 224 30.602 19.792 41.378 1 ATOM 108 CB THR A 224 30.602 19.792 41.378 1 ATOM 108 CB THR A 224 30.805 20.206 42.851 1 ATOM 101 CG2 THR A 224 30.805 20.206 42.851 1 ATOM 110 CG2 THR A 224 30.805 20.206 42.851 1 ATOM 110 CG2 THR A 224 30.805 20.206 42.851 1 ATOM 111 C THR A 224 30.616 21.011 40.533 1 ATOM 112 O THR A 224 30.602 19.792 41.378 1 ATOM 113 N VAL A 225 30.777 22.160 40.832 1 ATOM 114 CA VAL A 225 30.777 24.292 40.122 1 ATOM 115 CB VAL A 225 30.777 24.292 40.122 1 ATOM 116 CG1 VAL A 225 31.797 24.292 40.122 1 ATOM 115 CB VAL A 225 31.797 24.292 40.122 1 ATOM 116 CG1 VAL A 225 31.797 24.292 40.122 1 ATOM 115 CB VAL A 225 31.797 24.292 40.122 1	.00 39.09 .00 35.47 .00 33.74 .00 28.86 .00 33.33 .00 34.85 .00 34.26 .00 31.90	7 6 6 6 6 6 6 8
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118 C VAL A 225 30.070 23.195 38.706 1	.00 41.76	6
	.00 37.52	6
ATOM 118 C VAL A 225 30.070 23.195 38.706 1. 35 ATOM 119 O VAL A 225 29.119 23.803 38.239 1. 37 ATOM 120 N THE A 226 30.783 23.316 38.018 1.	.00 36.77	8
ATOM 120 N THR A 226 30.783 22.316 38.018 1	.00 34.02	7
ATOM 121 CA THR A 226 30.489 21.971 36.636 1	.00 34.67	6
ATOM 122 CB THR A 226 31.565 20.999 36.083 1	.00 30.56	6
ATOM 123 OG1 THR A 226 32.805 21.696 35.889 1.	.00 32.20	8
40 ATOM 124 CG2 THR A 226 31.108 20.346 34.783 1.	.00 20.99	6
ATOM 125 C THR A 226 29.100 21.361 36.510 1.	.00 36.41	6
	.00 39.64	8
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ATOM 130 C ALA A 227 26.507 20.604 37.318 1.	.00 37.69	6
ATOM 131 O ALA A 227 25.444 20.489 36.718 1.	.00 40.94	8
ATOM 132 N ALA A 228 26.811 21.630 38.107 1.	.00 32.86	7
	.00 32.48	6
50 ATOM 134 CB ALA A 228 26.448 23.587 39.486 1.	.00 28.25	6
ATOM 135 C ALA A 228 25.732 23.570 37.101 1.	.00 36.12	6
ATOM 136 O ALA A 228 24.673 23.560 36.473 1.	.00 37.86	8
ATOM 137 N HIS A 229 26.782 24.306 36.752 1.	.00 33.58	7
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ATOM			ATOM	199	CA	HIS	A	238	23.842	21.981	21.236	1.00	75.46	б
NTOM			ATOM	200	СВ	HIS	Α	238	22.990	20.732	21.661	1.00	75.85	6
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20 ATOM 211 CG TRP A 239 25.022 27.366 21.688 1.00 89.67 6 ATOM 213 CE2 TRP A 239 25.532 28.662 21.240 1.00 93.19 6 ATOM 213 CE2 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 214 CE3 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 215 CD1 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 215 CD1 TRP A 239 26.102 26.548 21.781 1.00 94.16 6 ATOM 216 NEI TRP A 239 27.268 27.241 21.475 1.00 97.48 7 ATOM 215 ATOM 216 CZ2 TRP A 239 27.7268 27.241 21.475 1.00 97.48 7 ATOM 216 NEI TRP A 239 27.798 29.598 20.764 1.00 96.23 6 ATOM 219 CH2 TRP A 239 27.798 29.598 20.764 1.00 96.75 6 ATOM 219 CH2 TRP A 239 27.717 30.825 20.482 1.00 97.32 6 ATOM 219 CH2 TRP A 239 27.717 30.825 20.482 1.00 97.32 6 ATOM 210 CTRP A 239 21.706 26.562 19.263 1.00 70.77 6 ATOM 220 C TRP A 239 21.706 26.562 19.263 1.00 70.77 6 ATOM 221 O TRP A 239 21.706 26.562 19.263 1.00 71.70 8 ATOM 222 N LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 224 CB LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 225 CG LYS A 240 25.314 26.780 17.783 1.00 66.65 6 ATOM 225 CG LYS A 240 25.314 26.780 17.783 1.00 65.63 6 ATOM 225 CG LYS A 240 26.529 27.342 17.872 1.00 69.83 6 ATOM 227 CE LYS A 240 27.805 27.037 17.108 1.00 71.31 6 ATOM 228 NZ LYS A 240 22.808 26.699 16.895 1.00 71.31 6 ATOM 229 C LYS A 240 22.808 26.699 16.895 1.00 66.19 6 ATOM 230 O LYS A 240 22.550 27.298 15.851 1.00 65.20 8 ATOM 231 N ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 232 CA ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 233 CB ASN A 241 22.304 23.121 15.693 1.00 66.69 7 ATOM 233 CB ASN A 241 22.304 23.121 15.693 1.00 66.69 7 ATOM 233 CB ASN A 241 22.304 23.121 15.693 1.00 66.90 70.19 6 ATOM 233 CB ASN A 241 22.304 23.121 15.693 1.00 67.33 6 ATOM 235 ODI ASN A 241 22.304 23.121 15.693 1.00 66.69 7 ATOM 238 O ASN A 241 22.304 23.121 15.693 1.00 66.66 6 ATOM 239 N LYS A 242 18.156 22.310 16.271 1.00 71.48 7 ATOM 240 CA LYS A 242 18.156 22.310 16.271 1.00 71.48 7 ATOM 240 CA LYS A 242 18.156 22.310 16.271 1.00 71.48 7 ATOM 240 CA LYS A 242 18.154 26.380 18.069 1.00 66.26 6 ATOM 240			ATOM	209	CA	TRP	Α	239	22.872	25.894	21.195	1.00	74.02	6
20 ATOM 212 CD2 TRP A 239 25.532 28.662 21.240 1.00 93.19 6 ATOM 213 CE2 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 214 CE3 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			ATOM	210	CB	TRP	Α	239	23.563	27.026	22.005	1.00	81.77	6
20 ATOM 212 CD2 TRP A 239 25.532 28.662 21.240 1.00 93.19 6 ATOM 213 CB2 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 214 CB3 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 215 CD1 TRP A 239 26.912 20.969 1.00 95.35 6 ATOM 215 CD1 TRP A 239 27.788 29.911 20.969 1.00 95.35 6 ATOM 215 CD1 TRP A 239 27.788 29.598 20.764 1.00 97.48 7 ATOM 216 CZ2 TRP A 239 27.798 29.598 20.764 1.00 96.23 6 ATOM 217 CZ2 TRP A 239 27.798 29.598 20.764 1.00 96.23 6 ATOM 218 CZ3 TRP A 239 27.798 29.598 20.764 1.00 96.73 6 ATOM 218 CZ3 TRP A 239 27.798 29.598 20.764 1.00 97.32 6 ATOM 218 CZ3 TRP A 239 27.798 29.598 20.764 1.00 97.32 6 ATOM 219 CH2 TRP A 239 27.798 29.598 20.764 1.00 97.32 6 ATOM 219 CH2 TRP A 239 22.799 26.407 19.774 1.00 70.777 ATOM 221 O TRP A 239 22.799 26.407 19.774 1.00 70.777 8 ATOM 221 O TRP A 239 21.706 26.562 19.263 1.00 71.70 8 ATOM 221 O TRP A 239 21.706 26.562 19.263 1.00 71.70 8 ATOM 223 CA LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 224 CB LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 224 CB LYS A 240 23.978 27.180 17.783 1.00 65.63 6 ATOM 225 CG LYS A 240 26.529 27.342 17.872 1.00 69.83 6 ATOM 225 CG LYS A 240 26.529 27.342 17.872 1.00 69.83 6 ATOM 225 CC LYS A 240 27.805 27.037 17.108 1.00 71.49 6 ATOM 230 O LYS A 240 22.808 26.699 16.895 1.00 71.49 6 ATOM 230 O LYS A 240 22.808 26.699 16.895 1.00 66.19 6 ATOM 231 N ASN A 241 22.130 25.640 17.752 1.00 66.19 6 ATOM 233 CB ASN A 241 22.310 23.562 16.550 1.00 67.98 6 ATOM 233 CB ASN A 241 22.304 23.121 15.693 1.00 71.37 8 ATOM 235 OD1 ASN A 241 22.404 23.506 14.503 1.00 71.37 8 ATOM 235 OD1 ASN A 241 22.404 23.506 14.503 1.00 71.37 8 ATOM 236 ND2 ASN A 241 22.404 23.506 14.503 1.00 71.37 8 ATOM 237 C ASN A 241 22.404 23.506 14.503 1.00 67.53 6 ATOM 240 CB LYS A 242 18.550 24.896 20.337 1.00 71.37 8 ATOM 245 ND2 ASN A 241 19.570 25.421 17.152 1.00 66.66 6 6 7 ATOM 245 CG LYS A 242 18.500 24.896 20.337 1.00 71.37 8 ATOM 245 ND2 ASN A 241 18.501 24.892 16.731 1.00 74.44 7 ATOM 245 ND2 ASN A 241 18.501 24.896 20.337 1.00 71.44 6 ATOM 245 ND2 ASN A			ATOM	211	CG	TRP	Α	239	25.022	27.366	21.688	1.00	89.67	6
ATOM 213 CE2 TRP A 239 26.961 28.522 21.136 1.00 95.46 6 ATOM 214 CE3 TRP A 239 24.936 29.911 20.969 1.00 95.35 6 ATOM 215 CD1 TRP A 239 24.936 29.911 20.969 1.00 95.35 6 ATOM 216 NE1 TRP A 239 26.102 26.548 21.781 1.00 94.16 6 ATOM 216 NE1 TRP A 239 27.268 27.241 21.475 1.00 97.48 7 ATOM 217 CC2 TRP A 239 27.798 29.598 20.764 1.00 96.23 6 ATOM 218 CZ3 TRP A 239 27.798 29.598 20.764 1.00 96.23 6 ATOM 219 CH2 TRP A 239 27.778 29.598 20.764 1.00 96.75 6 ATOM 219 CH2 TRP A 239 27.171 30.825 20.482 1.00 97.32 6 ATOM 220 C TRP A 239 22.799 26.407 19.774 1.00 70.77 6 ATOM 221 O TRP A 239 22.799 26.407 19.774 1.00 70.77 6 ATOM 221 O TRP A 239 21.706 26.562 19.263 1.00 71.70 8 ATOM 223 CA LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 223 CA LYS A 240 23.946 26.701 19.157 1.00 67.10 7 ATOM 224 CB LYS A 240 23.978 27.180 17.783 1.00 65.63 6 ATOM 225 CG LYS A 240 26.529 27.342 17.872 1.00 69.83 6 ATOM 226 CD LYS A 240 26.529 27.342 17.872 1.00 69.83 6 ATOM 226 CD LYS A 240 27.805 27.037 17.108 1.00 71.31 6 ATOM 227 CE LYS A 240 28.890 27.720 17.776 1.00 71.31 6 ATOM 230 O LYS A 240 22.808 26.699 16.895 1.00 66.99 6 ATOM 231 N ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 232 CA ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 233 CB ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 234 CG ASN A 241 22.113 25.640 17.325 1.00 66.69 7 ATOM 235 ODI ASN A 241 22.304 23.121 15.693 1.00 70.19 6 ATOM 236 ND2 ASN A 241 22.304 23.121 15.693 1.00 70.19 6 ATOM 237 C ASN A 241 22.304 23.121 15.693 1.00 70.19 6 ATOM 236 ND2 ASN A 241 22.304 23.121 15.693 1.00 70.19 6 ATOM 237 C ASN A 241 18.581 24.822 16.731 1.00 67.98 6 ATOM 240 CA LYS A 242 18.590 27.044 1.00 67.98 6 ATOM 240 CA LYS A 242 18.590 27.491 20.643 1.00 74.44 7 ATOM 245 NZ A242 18.164 26.396 20.119 1.00 67.96 6 ATOM 240 CA LYS A 242 18.164 26.396 20.119 1.00 67.46 6 ATOM 245 NZ A242 18.164 26.396 20.119 1.00 67.46 6 ATOM 245 NZ A242 18.164 26.396 20.119 1.00 67.46 6 ATOM 245 NZ A242 18.165 24.491 20		20			CD2							1.00	93.19	6
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ATOM 225 CG LYS A 240 26.529 27.342 17.872 1.00 66.65 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			ATOM	223	CA	LYS	Α	240	23.978	27.180	17.783	1.00	65.63	6
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ATOM 241 CB LYS A 242 18.164 26.396 20.119 1.00 67.93 6 50 ATOM 242 CG LYS A 242 18.250 24.896 20.337 1.00 71.52 6 ATOM 243 CD LYS A 242 17.004 24.149 19.821 1.00 74.32 6 ATOM 244 CE LYS A 242 15.755 24.491 20.643 1.00 74.41 6 ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6			ATOM	239	N	LYS	Α	242	19.475	26.380	18.069	1.00	66.86	7
50 ATOM 242 CG LYS A 242 18.250 24.896 20.337 1.00 71.52 6 ATOM 243 CD LYS A 242 17.004 24.149 19.821 1.00 74.32 6 ATOM 244 CE LYS A 242 15.755 24.491 20.643 1.00 74.41 6 ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6			ATOM	240	CA	LYS	Α	242	18.191	26.786	18.642	1.00	67.46	6
50 ATOM 242 CG LYS A 242 18.250 24.896 20.337 1.00 71.52 6 ATOM 243 CD LYS A 242 17.004 24.149 19.821 1.00 74.32 6 ATOM 244 CE LYS A 242 15.755 24.491 20.643 1.00 74.41 6 ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6			ATOM	241	СВ	LYS	A	242	18.164	26.396	20.119	1.00	67.93	6
ATOM 243 CD LYS A 242 17.004 24.149 19.821 1.00 74.32 6 ATOM 244 CE LYS A 242 15.755 24.491 20.643 1.00 74.41 6 ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6		50			CG				18.250	24.896	20.337	1.00	71.52	
ATOM 244 CE LYS A 242 15.755 24.491 20.643 1.00 74.41 6 ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6														
ATOM 245 NZ LYS A 242 15.927 24.161 22.109 1.00 74.44 7 ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6														
ATOM 246 C LYS A 242 18.143 28.291 18.483 1.00 66.28 6 55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6														
55 ATOM 247 O LYS A 242 17.102 28.923 18.592 1.00 67.61 8 ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6														
ATOM 248 N ARG A 243 19.334 28.813 18.204 1.00 64.19 7 ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6		55												
ATOM 249 CA ARG A 243 19.617 30.219 17.975 1.00 62.43 6		JJ												
. ALUM 250 CB AKG A 243 21.070 50.274 17.463 1.00 60.12 6														
	•		AIOM	430	CB	AKG	A	243	21.0/0	30.2/4	11.403	1.00	90.12	0

	5	ATOM	251	CG	ARG	A	243	21.665	31.636	17.305		40.00	6
		MOTA	252	CD	ARG	A	243	23.213	31.599	17.267		40.00	6
		MOTA	253	NE	ARG	A	243	23.826	31.217	15.996	1.00	40.00	7
		MOTA	254	CZ	ARG	Α	243	25.113	31.439	15.714	1.00	40.00	6
		ATOM	255	NH1	ARG	A	243	25.905	32.041	16.616	1.00	40.00	7
	10	ATOM	256	NH2	ARG	A	243	25.592	31.097	14.520	1.00	40.00	7
		ATOM	257	С	ARG	Α	243	18.639	30.789	16.950	1.00	62.97	6
		ATOM	258	0	ARG	Α	243	18.662	30.390	15.784	1.00	63.96	8
		ATOM	259	N	LYS	A	244	17.771	31.692	17.393	1.00	62.41	7
		ATOM	260	CA	LYS	A	244	16.790	32.309	16.498	1.00	61.57	6
	15	ATOM	261	CB	LYS	A	244	15.368	31.974	16.962	1.00	63.68	6
		ATOM	262	CG	LYS	A	244	15.102	30.471	17.104	1.00	71.29	6
		ATOM	263	CD	LYS	Α	244	13.641	30.167	17.468	1.00	73.83	6
		ATOM	264	CE	LYS	A	244	13.182	30.908	18.737	1.00	74.71	6
		ATOM	265	NZ	LYS	Α	244	13.951	30.536	19.970	1.00	73.32	7
	20	ATOM	266	С	LYS	Α	244	17.009	33.806	16.501	1.00	59.30	6
		ATOM	267	0	LYS	Α	244	16.562	34.514	17.399	1.00	56.34	8
		ATOM	268	N	PHE	Α	245	17.705	34.264	15.468	1.00	57.06	7
		ATOM	269	CA	PHE	Α	245	18.045	35.692	15.333	1.00	59.01	6
		ATOM	270	СВ	PHE	Α	245	18.825	35.947	14.049	1.00	59.62	6
ij	25	ATOM	271	CG	PHE	Α	245	19.908	34.979	13.834	1.00	66.60	6
ΙŲ		ATOM	272	CD1	PHE	Α	245	19.618	33.714	13.399	1.00	67.17	6
Ū		ATOM	273	CD2	PHE	Α	245	21.198	35.309	14.139	1.00	69.25	6
랊		ATOM	274	CE1	PHE	Α	245	20.614	32.794	13.255	1.00	69.92	6
14		ATOM	275	CE2	PHE	Α	245	22.189	34.385	13.994	1.00	70.50	6
<u> </u>	30	ATOM	276	CZ	PHE	Α	245	21.897	33.126	13.552	1.00	70.89	6
*•j	•	ATOM	277	С	PHE	A	245	16.856	36.620	15.340	1.00	60.68	6
		ATOM	278	0	PHE	Α	245	15.946	36.516	14.528	1.00	62.37	8
i, L		ATOM	279	N	LEU	A	246	16.919	37.558	16.272	1.00	60.10	7
		ATOM	280	CA	LEU	Α	246	15.884	38.554	16.437	1.00	59.44	6
IJ	35	ATOM	281	CB	LEU	Α	246	16.227	39.510	17.585	1.00	57.43	6
Ü		ATOM	282	CG	LEU	Α	246	15.100	40.384	18.086	1.00	54.41	6
ū		ATOM	283	CD1	LEU	Α	246	14.010	39.474	18.640	1.00	52.43	6
_		ATOM	284	.CD2	LEU			15.575	41.325	19.151	1.00	51.69	6
		ATOM	285	С	LEU	Α	246	15.717	39.330	15.135	1.00	62.05	6
	40	ATOM	286	0	LEU	A	246	16.706	39.609	14.430		59.85	8
		ATOM	287	N	PRO	Α	247	14.473	39.668	14.784		63.33	7
		ATOM	288	CD	PRO			13.263	39.314	15.534		64.44	6
		ATOM	289	CA	PRO			14.198	40.421	13.558		63.56	6
		ATOM	290	CB	PRO			12.687	40.671	13.600		64.42	6
	45	ATOM	291	CG	PRO			12.161	39.922	14.729		64.90	6
•		ATOM	292	С	PRO			14.996	41.733	13.496		61.94	6
		ATOM	293	0	PRO			15.159	42.455	14.486		61.60	8
		ATOM	294	N	GLU			15.506	42.006	12.299		61.33	7
		ATOM	295	CA	GLU			16.280	43.197	11.976		63.50	6
	50	MOTA	296	СВ	GLU			16.481	43.273	10.437		66.94	6
		ATOM	297	CG	GLU			17.012	44.671	9.966		68.70	6
		ATOM	298	CD	GLU			16.981	44.939	8.471		40.00	6
		ATOM	299		GLU			16.432	44.144	7.644		40.00	8
		MOTA	300		GLU			17.509	46.015	8.086		40.00	8
	55	MOTA	301	С	GLU			15.624	44.489	12.458		64.19	6
		ATOM	302	0	GLU			16.298	45.395	12.918		65.56	8
		ATOM	303	N	ASP			14.300	44.545	12.323		64.36	7.
		ATOM	304	CA	ASP	A	249	13.493	45.703	12.673	1.00	63.33	6

	5	MOTA	305	CB	ASP A	249	12.088	45.531	12.116	1.00	62.97	6
		MOTA	306	CG	ASP A	249	11.277	44.527	12.870	1.00	64.63	6
		ATOM	307	OD1	ASP A	249	11.687	43.352	12.963	1.00	64.84	8
		ATOM	308		ASP A		10.183	44.880	13.395	-	66.52	8
		ATOM	309	C	ASP A		13.371	46.062	14.130		64.31	6
	10	ATOM	310	0	ASP A		13.310	47.250	14.468		64.73	8
		ATOM	311	N	ILE A		13.274	45.049	14.997		63.09	7
		MOTA	312	CA	ILE A		13.133	45.318	16.418		64.39	6
		ATOM	313	CB	ILE A		13.135	44.034	17.214		65.79	6
		ATOM	314	CG2	ILE A		12.001	44.104	18.336		64.78	6
	15			CG2							65.28	6
	13	ATOM	315		ILE A		12.611	42.860	16.341			
		ATOM	316	CD1	ILE A		11.753	41.852	17.088		65.08	6
		ATOM	317	С	ILE A		14.404	46.104	17.276		65.21	6
		ATOM	318	0	ILE A		15.155	45.506	18.047		64.05	8
	20	ATOM	319	N	GLY A		14.670	47.529	17.299		65.48	7
	20	ATOM	320	CA	GLY A		15.871	48.326	18.042		67.32	6
		ATOM	321	C	GLY A		16.595	49.110	16.895	1.00	68.52	6
		ATOM	322	0	GLY A		17.528	48.616	16.266		65.49	8
		ATOM	323	N	GLN A		16.162	50.356	16.557		72.26	7
Ű		MOTA	324	CA	GLN A		16.541	50.930	15.207		74.10	6
	25	ATOM	325	CB	GLN A		15.316	50.844	14.295		75.82	6
IJ		ATOM	326	С	GLN A		16.995	52.403	15.084		77.17	6
(X)		MOTA	327	0	GLN A		17.572	52.955	15.986		76.50	8
		ATOM	328	N	ALA A		16374	53.372	13.908		80.78	7
`~.]		ATOM	329	CA	ALA A		16.687	54.725	13.567		83.70	6
, ~! [- 	30	ATOM	330	CB	ALA A		16.381	54.956	12.093		83.23	6
		ATOM	331 _.	С	ALA A		16.159	55.960	14.345		85.59	6
		ATOM	332	0	ALA A		15.317	56.721	13.798	1.00	85.69	8
IJ		ATOM	333	N	PRO A		16.384	56.155	16.264	-	35.05	7
		ATOM	334	CD	PRO A		17.102	55.053	16.908		33.97	6
	35	ATOM	335	CA	PRO A	254	16.002	57.231	17.219	1.00	35.89	6
Ē		MOTA	336	CB	PRO A	254	16.534	56.756	18.563		33.94	6
ū		MOTA	337	CG	PRO A	254	17.146	55.441	18.349	1.00	33.31	6
1007		ATOM	338	С	PRO A	254	16.717	58.498	16.731	1.00	37.75	6
		ATOM	339	0	PRO A	254	17.838	58.804	17.100	1.00	38.78	8
	40	TER										
		ATOM	1	N	LYS A	263	18.045	57.462	23.875	1.00	61.71	7
		ATOM	2 /	CA	LYS A	263	16.824	56.712	24.215	1.00	64.36	6
		ATOM	3	CB	LYS A	263	15.758	57.004	23.141	1.00	63.50	6
		ATOM	4	С	LYS A	263	16.841	55.180	24.429	1.00	63.41	6
	45	ATOM	5	0	LYS A	263	17.877	54.542	24.409	1.00	61.93	8
		ATOM	6	N	VAL A	264	15.615	54.664	24.654	1.00	61.15	7
		ATOM	7	CA	VAL A	264	15.292	53.229	24.856	1.00	59.46	6
		ATOM	8	CB	VAL A	264	14.251	52.974	25.978	1.00	59.03	6
		ATOM	9	CG1	VAL A	264	14.229	51.494	26.368	1.00	53.79	6
	50	ATOM	10	CG2	VAL A	264	14.449	53.818	27.142	1.00	55.32	6
		ATOM	11	С	VAL A	264	14.590	52.820	23.554	1.00	60.96	6
		ATOM	12	0	VAL A	264	14.734	53.468	22.508	1.00	62.13	8
		ATOM	13	N	ASP A	265	13.802	51.755	23.634	1.00	62.59	7
		ATOM	14	CA	ASP A		12.995	51.263	22.526		64.95	6
	55	ATOM	15	СВ	ASP A		13.825	51.077	21.271		64.32	6
		ATOM	16	CG	ASP A		13.282	50.048	20.485		67.70	6
		ATOM	17		ASP A		12.795	50.011	19.446		72.59	8
		ATOM	18		ASP A		13.354	48.867	20.294		68.84	8

	5	ATOM	19	С	ASP	A	265	12.326	49.943	22.952		65.64	6
		ATOM	20	0	ASP	A	265	12.771	48.850	22.655	1.00	68.81	8
		ATOM	21	N	LEU	A	266	11.256	50.152	23.702	1.00	65.12	7
		ATOM	22	CA	LEU	A	266	10.368	49.169	24.288	1.00	63.40	6
		ATOM	23	CB	LEU	Α	266	9.115	49.938	24.708	1.00	67.34	6
	10	ATOM	24	CG	LEU	A	266	9.399	51.124	25.618	1.00	69.35	6
		ATOM	25	CD1	LEU	A	266	8.304	52.148	25.533	1.00	68.24	6
		ATOM	26	CD2	LEU	Α	266	9.581	50.631	27.021	1.00	70.47	6
		ATOM	27	С	LEU	А	266	9.940	47.888	23.559	1.00	59.67	6
		ATOM	28	0	LEU	A	266	9.694	46.879	24.220	1.00	53.35	8
	15	ATOM	29	N	GLU	Α	267	9.815	47.904	22.235	1.00	58.01	7
		ATOM	30	CA			267	9.417	46.682	21.572	1.00	58.34	6
		ATOM	31	СВ	GLU			9.311	46.855	20.048		59.21	6
		ATOM	32	CG			267	9.129	45.494	19.322		62.89	6
		ATOM	33	CD			267	8.736	45.592	17.883		67.66	6
	20	ATOM	34	OE1				9.433	46.263	17.080		69.95	8
		ATOM	35		GLU			7.710	44.974	17.503		69.40	8
		ATOM	36	C			267	10.504	45.683	21.895		57.67	6
		ATOM	37	Õ	GLU			10.255	44.485	21.988		58.34	8
		ATOM	38	N	ALA			11.712	46.222	22.054		53.43	7
ŧØ	25	ATOM	39	CA	ALA			12.903	45.454	22.374		49.00	6
IV		ATOM	40	СВ	ALA			14.137	46.241	21.983		45.72	6
Ø		ATOM	41	C	ALA			12.908	45.196	23.873		45.76	6
ا ل		ATOM	42	0	ALA			12.887	44.042	24.307		41.50	8
150		ATOM	43	N			269	12.918	46.277	24.663		41.43	7
	30	ATOM	44	CA			269	12.920	46.158	26.118		43.96	6
, 4	20	ATOM	45	СВ			269	12.395	47.426	26.777		40.10	. 6
21		ATOM	46	CG			269	12.332	47.345	28.271		40.44	6
		ATOM	47	CD1	PHE			13.457	47.595	29.034		38.98	6
W		ATOM	48	CD2	PHE			11.165	46.946	28.903		37.15	6
	35	ATOM	49	CE1	PHE			13.409	47.469	30.436		32.12	6
		ATOM	50		PHE			11.105	46.815	30.303		38.41	6
.D		ATOM	51	CZ			269	12.228	47.070	31.071		40.55	6
لية		ATOM	52	C	PHE			12.017	45.012	26.520		49.76	6
		ATOM	53	0	PHE			12.277	44.324	27.484		52.15	8
	40	ATOM	54	N	SER			10.934	44.835	25.768		53.15	7
		ATOM	55	CA	SER			9.988	43.768	26.043		52.29	6
		ATOM	56	CB	SER			8.727	43.943	25.215		51.85	6
		ATOM	57	OG	SER			7.785	42.918	25.497		53.42	8
		ATOM	58	C	SER		-	10.637	42.464	25.685		49.38	6
	45	ATOM	59	Ö	SER			11.068	41.741	26.562		48.74	8
		ATOM	60	N	HIS			10.683	42.173	24.383		50.15	7
		ATOM	61	CA	HIS			11.276	40.932	23.877		51.67	6
		ATOM	62	СВ	HIS			11.797	41.118	22.455		58.52	6
	•	ATOM	63	CG	HIS			10.775	40.885	21.399		68.97	6
	50	ATOM	64		HIS			10.633	39.891	20.485		70.88	6
	30	ATOM	65		HIS			9.673	41.732	21.199		71.98	7
		ATOM	66		HIS			8.936	41.242	20.209		73.91	6
		ATOM	67		HIS			9.495	40.132	19.764		73.59	7
		ATOM	68	C	HIS			12.402	40.132	24.745		48.33	6
	55	ATOM	69	0	HIS			12.707	39.225	24.728		48.39	8
		ATOM	70	N	PHE			13.029	41.334	25.487		41.34	7
		ATOM	71	CA	PHE			14.130	41.001	26.384		39.44	6
		ATOM	72	CB	PHE			15.077	42.194	26.512		36.67	6
					+ +++	4.3		10.0.7			1.00	,	-

	5	MOTA	73	CG	PHE A	A 272	15.953	42.413	25.282	1.00 33.39	
		ATOM	74	CD1	PHE A	A 272	16.619	43.615	25.093	1.00 33.14	6
		MOTA	75	CD2	PHE A	A 272	16.138	41.394	24.346	1.00 38.28	6
		MOTA	76	CEl	PHE A	A 272	17.454	43.807	23.988	1.00 38.26	6
		ATOM	77	CE2	PHE A	A 272	16.973	41.585	23.244	1.00 43.28	6
	10	ATOM	78	CZ		a 272	17.634	42.786	23.068	1.00 39.74	
		ATOM	79	С	PHE A	A 272	13.650	40.528	27.764	1.00 40.75	
		ATOM	80	0		A 272	14.081	39.476	28.227	1.00 35.51	
		ATOM	81	N		A 273	12.756	41.266	28.428	1.00 41.64	
		ATOM	82	CA		a 273	12.290	40.854	29.757	1.00 45.97	
	15	MOTA	83	СВ		A 273	11.651	42.025	30.506	1.00 51.52	
		ATOM	84	OG1	THR A		10.442	42.422	29.859	1.00 45.74	
		ATOM	85	CG2	THR A		12.601	43.211	30.565	1.00 49.73	
		ATOM	86	С		A 273	11.267	39.731	29.664	1.00 46.23	
		ATOM	87	0		A 273	10.854	39.183	30.680	1.00 41.21	
	20	ATOM	88	N	LYS A		10.849	39.412	28.440	1.00 46.21	
		ATOM	89	CA	LYS A		9.871	38.362	28.211	1.00 54.53	
		ATOM	90	СВ		A 274	9.414	38.405	26.773	1.00 54.36	
		ATOM	91	C	LYS A		10.498	37.015	28.515	1.00 56.88	
		ATOM	92	Ö	LYS A		9.789	36.044	28.759	1.00 57.98	
Ä	25	ATOM	93	N		A 275	11.836	36.973	28.491	1.00 56.48	
ĮŪ	23	ATOM	94	CA		A 275	12.609	35.746	28.767	1.00 52.64	
(X		ATOM	95	CB		A 275	13.444	35.346	27.543	1.00 32.04	
ļ.		ATOM	96	CG2	ILE A		12.568	34.829	26.429	1.00 47.42	
إيها		ATOM	97	CG1	ILE A		14.238	36.532	27.026	1.00 45.31	
-	30	ATOM	98	CD1	ILE A		15.001	36.242	25.771	1.00 37.22	,
100	50	ATOM	99	C		A 275	13.541	35.870	29.982	1.00 57.22	
31		ATOM	100	Ö	ILE A		14.014	34.873	30.503	1.00 49.80	
		ATOM	101	N	ILE A		13.790	37.107	30.415	1.00 43.00	
ַ		ATOM	102	CA	ILE A		14.681	37.389	31.537	1.00 51.70	
	35	ATOM	103	СВ	ILE A		14.691	38.877	31.844	1.00 55.04	
	<i>J J</i>	ATOM	104	CG2	ILE A		13.311	39.340	32.261	1.00 53.04	
Ü		ATOM	105	CG1	ILE A		15.675	39.206	32.976	1.00 57.31	
Ü		ATOM	106	CD1	ILE A		17.096	38.942	32.655	1.00 60.32	
		ATOM	107	C	ILE A		14.323	36.644	32.828	1.00 50.70	
	40	ATOM	108	o	ILE F		15.177	36,458	33.691	1.00 55.55	8
		ATOM	109	N	THR A		13.072	36.209	32.963	1.00 47.33	
	••	ATOM	110	CA	THR A		12.631	35.523	34.158	1.00 42.59	6
		ATOM	111	СВ	THR A		11.098	35.456	34.217	1.00 44.97	6
		ATOM	112		THR A		10.545	36.777	34.102	1.00 46.38	8
	45	ATOM	113	CG2	THR A		10.657	34.838	35.539	1.00 37.17	6
	••	ATOM	114	C	THR A		13.211	34.118	34.304	1.00 39.84	6
		ATOM	115	0	THR A		13.796	33.796	35.365	1.00 40.55	8
		ATOM	116	N	PRO P		13.055	33.261	33.288	1.00 38.20	7
		ATOM	117	CD	PRO P		12.370	33.534	32.023	1.00 36.34	6
	50	ATOM	118	CA	PRO A		13.595	31.894	33.363	1.00 36.63	6
	50	ATOM	119	CB	PRO A		13.153	31.244	32.064	1.00 30.05	6
		ATOM	120	CG	PRO A		12.573	32.291	31.239	1.00 32.35	6
		ATOM	121	C	PRO A		15.101	31.932	33.476	1.00 38.60	6
		ATOM	122	0	PRO A		15.746	30.981	33.898	1.00 37.67	8
	55	ATOM	123	N	ALA A		15.746	33.051	33.035	1.00 37.07	7
	J J	ATOM	123	CA	ALA A		17.087	33.031	33.033	1.00 37.03	6
		ATOM	125	CB	ALA A		17.376	34.599	32.348	1.00 33.18	6
		ATOM	126	СВ	ALA A		17.624	33.312	34.452	1.00 30.38	6
		013		~	ישרט כי		17.047	JJ.J12	J7.7J4	1.00 00.47	9



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	5	ATOM	127	0	ALA	A	279	18.523	32.555	34.789	1.00		8
		ATOM	128	N	ILE	A	280	17.060	34.215	35.260		29.96	7
		ATOM	129	CA	ILE	A	280	17.459	34.362	36.646		25.94	6
		MOTA	130	СВ	ILE	A	280	16.686	35.484	37.315		26.95	6
		ATOM	131	CG2	ILE	A	280	17.109	35.632	38.733		15.40	6
	10	ATOM	132	CG1	ILE	Α	280	16.931	36.808	36.595		26.73	6
	••	ATOM	133	CD1	ILE	A	280	16.292	38.002	37.272	-	34.31	6
		ATOM	134	С	ILE	Α	280	17.263	33.066	37.412		31.39	6
		ATOM	135	0	ILE	A	280	18.116	32.679	38.207		35.69	8
		ATOM	136	N	THR	A	281	16.145	32.386	37.165		30.90	7
	15	ATOM	137	CA	THR	Α	281	15.854	31.118	37.851		33.49	6
		ATOM	138	СВ	THR	A	281	14.598	30.413	37.277		37.18	6
		ATOM	139	OG1	THR			14.795	30.099	35.898		46.48	8
		ATOM	140	CG2			281	13.352	31.281	37.444		32.85	6
		ATOM	141	С			281	17.045	30.176	37.713		29.94	6
	20	ATOM	142	0			281	17.478	29.546	38.684		25.55	8
	20	ATOM	143	N			282	17.561	30.076	36.489		32.70	7
		ATOM	144	CA			282	18.692	29.198	36.218	1.00	34.27	6
		ATOM	145	СВ			282	19.136	29.374	34.780	1.00		6
		ATOM	146	CG			282	19.272	28.086	34.013	1.00	45.15	6
ū	25	ATOM	147	CD			282	18.179	27.921	32.977	1.00		б
ĪŪ.	2,3	ATOM	148	NE			282	18.041	29.077	32.117	1.00	68.41	7
Ü		ATOM	149	CZ			282	19.018	29.529	31.352	1.00	72.31	6
1=		ATOM	150	NH1			282	20.190	28.886	31.327	1.00	77.89	7
أميا		ATOM	151	NH2			282	18.802	30.593	30.595	1.00	69.25	7
<u></u>	30	MOTA	152	C			282	19.823	29.582	37.170	1.00	34.81	6
إيعا	50	MOTA	153	Ö			282	20.380	28.735	37.855	1.00	36.03	8
F 1		ATOM	154	N			283	20.135	30.882	37.190	1.00	31.71	7
		ATOM	155	CA			283	21.171	31.434	38.057	1.00	30.16	6
ليا		ATOM	156	CB			283	21.198	32.965	37.981	1.00	29.00	6
IJ	35	ATOM	157	CG1			283	22.208	33.533	38.952	1.00	28.64	6
	33	ATOM	158	CG2			283	21.525	33.415	36.578	1.00	28.28	6
١Đ		7.7014	159	C			283	20.942	30.992	39.498	1.00	32.50	6
÷ D		ATOM (160	Ö			283	21.879	30.717	40.229	1.00	33.48	8
		ATOM	161	N			284	19.671	30.941	39.892	1.00	30.96	7
	40	ATOM	162	CA			284	19.289	30.527	41.239	1.00	29.14	6
	40	ATOM	163	СВ			284	17.822	30.865	41.548	1.00	31.27	6
		ATOM	164				284	17.472	30.461	42.945	1.00	24.21	6
		ATOM	165				284	17.555	32.334	41.360	1.00	30.51	6
		ATOM	166	C			284	19.529	29.037	41.353	1.00	28.89	6
	45	ATOM	167	Ö			284	20.073	28.568	42.345	1.00	27.29	8
	45	ATOM	168	N			285	19.121	28.296	40.327	1.00	28.76	7
		ATOM	169	CA			285	19.277	26.842	40.306	1.00	35.32	6
		ATOM	170	CB			285	18.586	26.234	39.072	1.00	33.29	6
			171	CG			285	17.083	26.277	39.149	1.00	38.15	6
	50	ATOM ATOM	172				285	16.484	25.743	40.110	1.00	34.70	8
	50		173				285	16.431	26.828	38.231	1.00	34.43	8
•		ATOM	174	C			285	20.751	26.449	40.305		36.70	6
		ATOM					285	21.106		40.808		37.96	8
		ATOM	175 176	О И			286	21.604	27.300	39.737		35.96	7
	55	ATOM ATOM	177	CA			286	23.029		39.704		37.10	6
	,,		178	CB			286	23.754	28.009	38.793		37.97	6
		ATOM	179				286	25.252		38.987		36.50	6
		ATOM	180				286	25.963		38.974		36.75	6
		ATOM	TOO	CD.	. FRE	, ,	. 200	20.505					



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	5	ATOM	181	CD2	PHE	А	286	25.931	29.218	39.199	1.00	33.83	6
	•	ATOM	182		PHE			27.331	26.860	39.161		39.55	6
		ATOM	183	CE2				27.307	29.233	39.387	1.00	38.08	6
		ATOM	184	CZ			286	28.008	28.052	39.371	1.00	34.44	6
		ATOM	185	C			286	23.631	27.105	41.083	1.00	36.83	6
	10	ATOM	186	0			286	24.317	26.192	41.504	1.00	35.61	8
		ATOM	187	N			287	23.393	28.228	41.752	1.00	37.33	7
		ATOM	188	CA	ALA			23.917	28.448	43.087	1.00	36.34	б
		ATOM	189	СВ	ALA	Α	287	23.523	29.828	43.555	1.00	36.40	6
		ATOM	190	С	ALA			23.346	27.393	44.027	1.00	38.76	6
	15	ATOM	191	0	ALA	A	287	23.994	26.973	44.981	1.00	41.98	8
		ATOM	192	N	LYS	Α	288	22.114	26.979	43.735	1.00	38.28	7
		ATOM	193	CA	LYS	Α	288	21.429	25.971	44.538	1.00	45.26	6
		MOTA	194	CB	LYS	A	288	19.994	25.746	44.054	1.00	48.35	6
		ATOM	195	CG	LYS	Α	288	19.025	26.819	44.464	1.00	51.43	б
	20	ATOM	196	CD	LYS	Α	288	17.628	26.246	44.682	1.00	60.23	6
		ATOM	197	CE	LYS			17.135	25.478	43.485	1.00	62.81	6
		ATOM	198	NZ	LYS	Α	288	17.196	26.327	42.268	1.00	64.69	7
		ATOM	199	С	LYS	Α	288	22.120	24.632	44.536	1.00	43.31	6
		ATOM	200	0	LYS	A	288	21.967	23.857	45.462	1.00	45.66	8
·Ø	25	ATOM	201	N	LYS	A	289	22.865	24.366	43.467	1.00	41.70	7
ľŪ		ATOM	202	CA	LYS	Α	289	23.571	23.120	43.351	1.00	40.67	6
Ø		ATOM	203	СВ	LYS	Α	289	23.655	22.708	41.877	1.00	42.25	6
		ATOM	204	CG	LYS	Α	289	22.271	22.492	41.247	1.00	39.53	6
'~]		ATOM	205	CD	LYS	Α	289	22.331	21.606	40.012	1.00	43.19	6
[===	30	MOTA	206	CE	LYS	A	289	20.941	21.362	39.447	1.00	45.74	6
100		ATOM	207	NZ	LYS	A	289	20.273	20.165	40.006	1.00	52.49	7
		ATOM	208	С	LYS	A	289	24.948	23.185	44.003	1.00	41.50	6
اليا اليا		MOTA	209	0	LYS			25.642	22.184	44.080		39.77	8
i.e		ATOM	210	N	LEU	Α	290	25.312	24.370	44.490		40.68	7
	35	ATOM	211	CA	LEU			26.594	24.583	45.149		39.33	6
Õ		ATOM	212	CB	LEU			27.153	25.972	44.829		36.14	6
Ō		ATOM	213	CG	LEU			27.358	26.290	43.365		34.81	6
		ATOM	214	CD1	LEU			27.945	27.675	43.208		29.07	6
		ATOM	215		LEU			28.267	25.242	42.757		33.45	6
	40	ATOM	216	С	LEU			26.434	24.405	46.652		40.08	6
		ATOM	217	0	LEU			25.803	25.235	47.333		42.00	8
		ATOM	218	N	PRO			27.028	23.333	47.210		40.27	7
		ATOM	219	CD	PRO			27.851	22.330	46.519		39.65	6
	4.5	ATOM	220	CA	PRO			26.905	23.096	48.659		38.28	6
	45	ATOM	221	CB	PRO			27.755	21.860	48.911		35.88	6
		ATOM	222	CG	PRO			28.202	21.355	47.585		34.19	6
		ATOM	223	С	PRO			27.327	24.298	49.522		40.05	6
		ATOM	224	0	PRO			26.571	24.739	50.391		41.33	8
	50	ATOM	225	N	MET			28.522	24.843	49.299		40.59	7
	50	ATOM	226	CA	MET			29.021	25.957	50.097		42.86	6
		ATOM	227	СВ	MET			30.313	26.475	49.477		43.28	6
		ATOM	228	CG	MET			31.269	25.378	49.050		50.35	6
		ATOM	229	SD	MET			32.895	26.096	48.757		51.17	16
	55	ATOM	230	CE	MET			33.812	24.647	48.074		54.63	6
	כנ	ATOM	231	С	MET			27.984	27.066	50.149		41.05	6 8
		ATOM	232	O N1	MET			27.986	27.886 27.078	51.057		39.66 39.30	7
		ATOM ATOM	233 234	N CA	PHE PHE			27.080 26.030	28.091	49.172 49.114		40.92	6
		AT ON	£ 34	CH	FUL	^	693	20.030	20.031	32.114	1.00	10.36	3

	5	ATOM	235	СВ	PHE	A	293	25.398	28.107	47.715	1.00	40.98	6
		ATOM	236	CG	PHE	A	293	24.348	29.168	47.524	1.00	42.78	6
		ATOM	237	CD1			293	24.654	30.493	47.747	1.00		6
		ATOM	238	CD2			293	23.071	28.833	47.116		43.66	6
		ATOM	239	CE1			293	23.701	31.478	47.564	1.00		6
	10	ATOM	240	CE2			293	22.112	29.819	46.930		46.21	6
	10			CZ			293	22.430	31.146	47.155		45.18	6
		ATOM	241										
		ATOM	242	С			293	24.979	27.772	50.164		45.54	6
		ATOM	243	0			293	24.686	28.576	51.034		42.01	8
		MOTA	244	N			294	24.426	26.572	50.062	1.00	47.05	7
	15	MOTA	245	CA			294	23.386	26.125	50.962	1.00	50.15	6
		ATOM	246	CB			294	22.944	24.733	50.524		45.90	6
		MOTA	247	SG	CYS	Α	294	22.303	24.663	48.829	1.00	51.50	16
		ATOM	248	С	CYS	Α	294	23.825	26.125	52,423	1.00	51.38	6
		ATOM	249	0	CYS	Α	294	23.008	25.954	53.322	1.00	53.83	8
	20	ATOM	250	N	GLU	Α	295	25.119	26.327	52.645	1.00	49.72	7
		ATOM	251	CA			295	25.666	26.384	53.996		52.53	6
		ATOM	252	СВ			295	27.103	25.830	54.015		57.40	6
		ATOM	253	CG			295	27.182	24.309	54.061		69.63	6
13		ATOM	254	CD			295	26.660	23.747	55.342	1.00	78.49	6
Ö	25				GLU			27.291		56.412			
ΪŪ	23	ATOM	255	OE1					23.946			82.82	8
Ď		ATOM	256	OE2			295	25.590	23.086	55.335		85.30	8
jeb		ATOM	257	С			295	25.653	27.831	54.488	1.00		6
, ₍₁₎		ATOM	258	0			295	26.365	28.184	55.426	1.00	49.82	8
j e		ATOM	259	N			296	24.804	28.631	53.846	1.00		7
مرا	30	ATOM	260	CA			296	24.670	30.034	54.159	1.00	45.42	6
		ATOM	261	CB			296	25.062	30.864	52.923	1.00	41.04	6
		ATOM	262	CG	LEU	A	296	26.438	30.658	52.315	1.00	42.74	6
تي: زير)		ATOM	263	CD1	LEU	Α	296	26.447	31.030	50.861	1.00	40.99	6
1.1		ATOM	264	CD2	LEU	Α	296	27.437	31.454	53.086	1.00	39.44	6
i.j	35	ATOM	265	С	LEU	A	296	23.239	30.366	54.548	1.00	45.56	6
اليور) والاول		ATOM	266	0	LEU	Α	296	22.301	29.660	54.148	1.00	43.07	8
ď,		ATOM	267	N			297	23.050	31.405	55.365		46.99	7
14		ATOM	268	CD	PRO			24.121	32.241	55.930		47.12	6
		ATOM	269	CA	PRO			21.700	31.811	55.787	_	49.61	6
	40	ATOM	270	СВ	PRO			21.937	32.990	56.738		49.91	6
		ATOM	271	CG	PRO			23.401	33.155	56.872		51.28	6
		ATOM	272	C	PRO			20.864	32.212	54.558		49.59	6
		ATOM	273	0	PRO			21.402	32.684	53,556		51.66	8
	45	ATOM	274	N	CYS			19.545	32.035	54.655		51.02	7
	45	ATOM	275	CA	CYS			18.618	32.369	53.567		52.86	6
		ATOM	276	CB	CYS			17.201	31.877	53.915		54.57	6
		ATOM	277	SG	CYS			16.040	33.162	54.440		67.87	16
		ATOM	278	С	CYS			18.583	33.863	53.291	1.00	48.51	6
		MOTA	279	0	CYS	A	298	18.039	34.288	52.282	1.00	49.58	8
	50	ATOM	280	N	GLU	Α	299	19.144	34.654	54.202	1.00	44.17	7
		ATOM	281	CA	GLU	Α	299	19.179	36.096	54.016	1.00	47.57	6
		ATOM	282	СВ	GLU	А	299	19.265	36.833	55.360		49.92	6
		ATOM	283	CG	GLU			17.931	36.996	56.125		59.30	6
		ATOM	284	CD	GLU			17.613	35.904	57.095		63.80	6
	55	ATOM	285	OE1	GLU	•		16.512	35.952	57.706		69.03	8
		ATOM	286	OE2	GLU			18.436	34.976	57.700		67.10	8
		ATOM	287	C	GLU			20.359	36.492	53.152		46.57	6
		ATOM	288	0									
		W I ON	200	U	GLU	М	433	20.265	37.441	52.379	1.00	44.65	8

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	5	ATOM	289	N	ASP	A	300	21.467	35.765	53.294	1.00	45.17	7
		ATOM	290	CA	ASP	A	300	22.661	36.042	52.509	1.00	43.32	6
		ATOM	291	CB	ASP	A	300	23.919	35.513	53.213	1.00	37.38	6
		ATOM	292	CG	ASP	A	300	24.223	36.239	54.473	1.00	36.23	6
		ATOM	293	OD1	ASP	A	300	24.153	37.488	54.493	1.00	35.87	8
	10	ATOM	294	OD2				24.572	35.575	55.483		40.14	8
		ATOM	295	С	ASP			22.514	35.390	51.138		42.81	6
		ATOM	296	ō	ASP			22.775	36.021	50.113		46.02	8
		ATOM	297	N	GLN			22.095	34.124	51.137	1.00		7
		ATOM	298	CA	GLN			21.896	33.390	49.902		40.00	6
	15	ATOM	299	CB	GLN			20.991	32.179	50.137		38.59	6
	13	ATOM	300	CG	GLN			21.644	31.003	50.808	1.00		6
		ATOM	301	CD	GLN			20.690	29.824	50.988	1.00		6
		ATOM	302	OE1	GLN			19.658	29.957	51.675		45.73	8
		ATOM	303	NE2	GLN			21.027	28.685	50.394	1.00		7
	20	ATOM	304	C	GLN			21.027	34.305	48.877	1.00	41.64	6
	20	MOTA	305	0	GLN			21.242	34.185	47.686		45.02	8
			306	N	ILE			20.413	35.228	49.372		41.01	7
		ATOM	307		ILE			19.726	36.179	49.372		40.23	
: 453		ATOM		CA									6
	25	ATOM	308	CB	ILE			18.502	36.774	49.217	1.00	39.52	6
Q. IU		MOTA	309	CG2	ILE			17.818	37.788	48.342	1.00	31.98	6
ĺΩ		ATOM	310	CG1	ILE			17.502	35.673	49.581	1.00	40.77	6
indi da		MOTA	311	CD1	ILE			17.003	34.897	48.385		45.43	6
, e ⁻]		ATOM	312	С	ILE			20.698	37.268	48.096	1.00	38.58	6
	20	ATOM	313	0	ILE			20.960	37.453	46.906	1.00	40.81	8
الم	30	ATOM	314	N .	ILE			21.228	37.972	49.097	1.00		7
51		ATOM	315	CA	ILE			22.179	39.060	48.874	1.00		6
		ATOM	316	CB	ILE			23.023	39.338	50.109	1.00		6
لِرا		ATOM	317	CG2	ILE			23.946	40.522	49.861	1.00		6
	25	ATOM	318	CG1	ILE			22.141	39.653	51.313	1.00	40.15	6
J	35	ATOM	319	CD1	ILE			22.916	39.806	52.589	1.00	36.93	6
ıĎ		ATOM	320	С	ILE			23.093	38.705	47.722	1.00	36.49	6
.D C		ATOM	321	0	ILE			23.354	39.509	46.835	1.00	36.58	8
		ATOM	322	N	LEU			23.580	37.477	47.762		32.91	7
	40	ATOM	323	CA	LEU			24.465	36.964	46.734		27.55	6
	40	ATOM		CB	LEU			24.935	35.554	47.123		22.35	6
		ATOM	325	CG	LEU			26.150	35.480	48.029		26.88	6
		ATOM	326		LEU			26.267	36.731	48.876		24.82	6
		ATOM	327		LEU			26.084	34.226	48.861		23.69	6
	4.5	ATOM	328	C	LEU			23.764	36.968	45.389		28.05	6
	45	ATOM	329	0	LEU			24.212	37.623	44.443		24.68	8
		ATOM	330	N	LEU			22.657	36.236	45.318		26.34	7
		ATOM	331	CA	LEU			21.892	36.147	44.089		30.91	6
		ATOM	332	CB	LEU			20.565	35.434	44.359		32.50	6
		ATOM	333	CG	LEU			20.637	33.950	44.635		33.36	6
	50	ATOM	334		LEU			19.247	33.370	44.779		33.87	6
		ATOM	335		LEU			21.340	33.280	43.466		31.72	6
		ATOM	336	С	LEU			21.665	37.524	43.477		29.76	6
		ATOM	337	0	LEU			21.954	37.747	42.301		29.33	8
		ATOM	338	N	LYS			21.157	38.439	44.298		29.72	7
	55	ATOM	339	CA	LYS			20.868	39.800	43.864		34.28	6
		ATOM	340	CB	LYS			20.293	40.615	45.026		35.98	6
		ATOM	341	CG	LYS			18.919	40.163	45.511		43.35	6
		ATOM	342	CD	LYS	A	306	18.397	41.127	46.559	1.00	51.50	6

	5	ATOM	343	CE	LYS	Α	306	18.271	42.515	45.971	1.00	53.26	6
		ATOM	344	NZ	LYS	A	306	18.325	43.548	47.038	1.00	59.61	7
		ATOM	345	С	LYS	Α	306	22.075	40.527	43.302	1.00	35.25	6
		ATOM	346	0	LYS	A	306	21.972	41.286	42.334	1.00	33.95	8
		MOTA	347	N	GLY	Α	307	23.228	40.306	43.928	1.00	35.79	7
	10	ATOM	348	CA	GLY	А	307	24.445	40.962	43.482	1.00	34.59	6
		ATOM	349	Ç	GLY			25.109	40.353	42.259		33.80	6
		ATOM	350	Ō	GLY			25.489	41.087	41.344		31.59	8
		ATOM	351	N	CYS			25.248	39.024	42.256		31.15	7
		ATOM	352	CA	CYS			25.899	38.326	41.174		29.04	6
	15	ATOM	353	CB	CYS			26.604	37.089	41.704		27.59	6
	13	ATOM	354	SG	CYS			25.472	35.770	42.071		30.50	16
		ATOM	355	C	CYS -			24.974	37.870	40.062		30.59	6
		ATOM	356	0	CYS			25.458	37.319	39.077		33.77	8
			357	N	CYS			23.450	38.084	40.195		28.46	7
	20	ATOM			CYS			22.739	37.623	39.168		30.10	6
	20	ATOM	358	CA						39.100		33.43	6
		ATOM	359	CB	CYS			21.311	38.004				
		ATOM	360	SG	CYS			20.198	37.299	38.307		35.20	16
.; CC14,		ATOM	361	С	CYS			23.065	38.123	37.788		27.72	6
12	25	ATOM	362	0	CYS			23.212	37.334	36.865		27.69	8
Q.	25	ATOM	363	N	MET			23.157	39.439	37.639		26.15	7
UI Q		ATOM	364	CA	MET			23.476	40.016	36.342		26.06	6
		ATOM	365	CB	MET			23.482	41.547	36.419		25.32	6
, e ⁻]		ATOM	366	CG	MET			23.913	42.230	35.109		24.08	6
ب. <u>ا</u> ت		ATOM	367	SD	MET			22.765	41.751	33.762		27.71	16
,	30	ATOM	368	CE	MET			23.650	42.321	32.270		28.50	6
£!		ATOM	369	С	MET			24.842	39.527	35.908		25.94	6
٦		ATOM	370	0	MET			25.020	39.076	34.788		28.09	8
لَدا		ATOM	371	N	GLU			25.800	39.638	36.826		25.39	7
Ш		ATOM	372	CA	GLU			27.176	39.234	36.589		27.03	6
لدا <u>ت</u>	35	ATOM	373	CB	GLU			27.973	39.303	37.900		24.39	6
Ō		ATOM	374	CG	GLU			27.842	40.628	38.668		26.00	6
٠Ō		ATOM	375	CD	GLU			28.726	40.720	39.870		23.95	6
-		ATOM	376		GLU			28.891	39.706	40.588		19.72	8
		ATOM	377	OE2	GLU			29.270	41.818	40.159		26.51	8
	40	ATOM	378	C	GLU	Α	311	27.266	37.827	35.997		27.51	6
		ATOM	379	0	GLU			27.956	37.620	35.014		29.67	8
		MOTA	380	N	ILE	Α	312	26.569	36.866	36.602		26.82	7
		ATOM	381	CA	ILE			26.593	35.497	36.112		25.71	6
		MOTA	382	CB	ILE	Α	312	25.991	34.518	37.123	1.00	23.35	6
	45	ATOM	383	CG2	ILE	Α	312	25.917	33.123	36.533	1.00	20.27	6
		ATOM	384	CG1	ILE	A	312	26.837	34.471	38.398	1.00	20.88	6
		ATOM	385	CD1	ILE	A	312	26.462	33.342	39.341	1.00	18.15	6
		ATOM	386	С	ILE	Α	312	25.871	35.371	34.791	1.00	27.91	6
		ATOM	387	0	ILE	Α	312	26.274	34.593	33.934	1.00	28.96	8
	50	ATOM	388	N	MET	А	313	24.788	36.130	34.633	1.00	27.66	7
		ATOM	389	CA	MET	A	313	24.013	36.081	33.395	1.00	30.18	6
		ATOM	390	СВ	MET			22.716	36.888	33.508		36.89	6
		ATOM	391	CG	MET			21.608	36.198	34.305		37.95	6
		ATOM	392	SD	MET			19.892	36.817	34.055		42.38	16
	55	ATOM	393	CE	MET			20.034	38.503	34.740		40.68	6
		ATOM.	394	C	MET			24.834	36.579	32.222		27.43	6
		ATOM	395	ō	MET			25.116	35.814	31.308		28.61	8
		ATOM	396	N .	SER			25.209	37.859	32.253		24.88	7

	5	MOTA	397	CA	SER	Α	314	26.005	38.472	31.197	1.00	27.98	6
		ATOM	398	CB	SER	A	314	26.354	39.914	31.581	1.00	29.64	6
		ATOM	399	OG	SER	Α	314	26.956	39.972	32.858	1.00	43.44	8
		MOTA	400	С	SER	A	314	27.275	37.679	30.851	1.00	22.30	6
		ATOM	401	0	SER			27.675	37.629	29.690		24.18	8
	10	ATOM	402	N	LEU			27.905	37.048	31.845		23.99	7
		ATOM	403	CA	LEU			29.099	36.261	31.563		25.07	6
		ATOM	404	CB	LEU			29.685	35.593	32.816		19.11	6
		ATOM	405	CG	LEU			30.675	34.479	32.505		20.39	6
		ATOM	406		LEU			31.866	35.040	31.756		18.92	6
	15	ATOM	407		LEU			31.125	33.789	33.765		12.93	6
		ATOM	408	C	LEU			28.700	35.180	30.597		24.53	6
		ATOM	409	Ö	LEU			29.304	35.036	29.55.6		26.32	8
		ATOM	410	N	ARG			27.678	34.426			28.18	7
		ATOM	411		ARG			27.151		30.982			6
	20			CA					33.312	30.216		27.54	
	20	ATOM	412	CB	ARG			25.915	32.752	30.928		27.39	6
		ATOM	413	CG	ARG			26.188	32.190	32.336		22.00	6
		ATOM	414	CD	ARG			24.934	31.526	32.901		18.78	6
		ATOM	415	NE	ARG			25.245	30.376	33.721		26.57	7
	25	ATOM	416	CZ	ARG			24.341	29.468	34.054		30.81	6
Q	25	ATOM	417	NH1				23.084	29.614	33.639		33.71	7
IJ		ATOM	418		ARG			24.701	28.416	34.776		33.13	7
IJ		ATOM	419	С	ĄRG			26.774	33.660	28.794		28.09	6
jd Vj		ATOM	420	0	ARG			26.737	32.792	27.931		32.41	8
		ATOM	421	N	ALA			26.484	34.936	28.571		28.36	7
<u> </u> -±	30	ATOM	422	CA	ALA			26.094	35.411	27.264	1.00	26.64	6
		ATOM	423	CB	ALA	А	317	25.232	36.666	27.418	1.00	22.93	6
		ATOM	424	C	ALA	Α	317	27.323	35.714	26.417	1.00	28.35	6
IJ		ATOM	425	0	ALA	Α	317	27.398	35.342	25.252	1.00	32.10	8
		ATOM	426	N	ALA	Α	318	28.286	36.396	27.026	1.00	29.12	7
	35	ATOM	427	CA	ALA	Α	318	29.515	36.760	26.350	1.00	27.50	6
ind Life		MOTA	428	СВ	ALA	A	318	30.434	37.452	27.333	1.00	28.39	6
*****		ATOM	429	С	ALA	A	318	30.181	35.502	25.825	1.00	28.10	6
T Alest		MOTA	430	0	ALA	Α	318	30.600	35.447	24.678	1.00	28.18	8
		MOTA	431	N	VAL	Α	319	30.255	34.491	26.700	1.00	29.16	7
	40	ATOM	432	CA	VAL	Α	319	30.880	33.198	26.393	1.00	35.24	6
		ATOM	433	CB	VAL	Α	319	30.703	32.210	27.547		27.34	6
		ATOM	434	CG1	VAL	Α	319	30.895	32.891	28.858		29.96	6
		ATOM	435	CG2	VAL	A	319	29.353	31.552	27.482		31.70	6
		ATOM	436	С	VAL			30.215		25.165		40.01	6
	45	ATOM	437	0	VAL			30.640		24.680		42.70	8
		ATOM	438	N	ARG			29.176	33.284	24.683		38.64	7
		ATOM	439	CA	ARG			28.415	32.822	23.545		38.61	6
		ATOM	440	СВ	ARG			27.031	32.458	24.043		37.26	6
		ATOM	441	CG	ARG			26.863	30.991	24.192		43.12	6
	50	ATOM	442	CD	ARG .			25.637	30.642	25.014		50.79	6
		ATOM	443	NE	ARG			25.258	29.256	24.770		54.71	7
		ATOM	444	CZ	ARG .			24.331	28.625	25.501		57.89	6
		ATOM	445		ARG .								
		ATOM	445		ARG .			23.667	29.291	26.440		49.08	7
	55	ATOM	447	C				23.964	27.385	25.242		59.59	7
		ATOM	447		ARG .			28.292	33.825	22.405		42.14	6
				O N	ARG .			27.251		21.748		46.30	8
		ATOM	449	N	TYR .			29.352	34.583	22.173		42.04	7
		ATOM	450	CA	TYR .	H	321	29.366	35.555	21.098	1.00	42.70	6

	5	ATOM	451	CB	TYR	A	321	30.083	36.810	21.575	1.00	38.01	6
		MOTA	452	CG	TYR	A	321	30.601	37.650	20.448	1.00	37.94	6
		ATOM	453	CD1	TYR	A	321	29.733	38.296	19.574	1.00	33.85	6
		ATOM	454	CE1	TYR	A	321	30.235	39.037	18.494	1.00	34.49	6
		ATOM	455	CD2	TYR			31.966	37.743	20.224	1.00	28.03	6
	10	ATOM	456	CE2	TYR			32.473	38.475	19.153		32.69	6
		ATOM	457	cz	TYR			31.612	39.125	18.276		35.18	6
		ATOM	458	ОН	TYR			32.107	39.866	17.223		39.48	8
		ATOM	459	C	TYR			30.085	35.005	19.877		45.51	6
		ATOM	460	0	TYR			31.261	34.697	19.951		48.02	8
	15				ASP			29.354	34.879	18.773	-	44.56	7
	15	ATOM	461	N									6
		ATOM	462	CA	ASP			29.912	34.400	17.502		45.86	
		ATOM	463	CB	ASP			28.804	33.670	16.736		46.64	6
		ATOM	464	CG	ASP			29.050	33.608	15.255		40.00	6
		ATOM	465		ASP			30.010	34.256	14.768	-	40.00	8
	20	ATOM	466		ASP			28.262	32.929	14.536		40.00	8
		ATOM	467	С	ASP			30.460	35.629	16.755		45.82	6
		ATOM	468	0	ASP	A	322	29.678	36.464	16.271		45.38	8
		ATOM	469	N	PRO	A	323	31.800	35.735	16.584	1.00	46.53	7
		ATOM	470	CD	PRO	Α	323	32.774	34.719	16.991	1.00	47.16	6
١Ð	25	ATOM	471	CA	PRO	A	323	32.424	36.889	15.890	1.00	46.63	6
IJ		ATOM	472	СВ	PRO	A	323	33.921	36.603	15.936	1.00	43.95	6
Ü		ATOM	473	CG	PRO	Α	323	34.099	35.303	16.582	1.00	43.93	6
int.		ATOM	474	С	PRO	Α	323	31.953	37.087	14.453	1.00	48.34	6
` ~ .]		ATOM	475	0	PRO			31.797	38.210	13.960	1.00	50.84	8
<u> </u> =	30	ATOM	476	N	GLU			31.778	35.970	13.752		52.39	7
,	_	ATOM	477	CA	GLU			31.339	35.968	12.370		55.85	6
8 1		ATOM	478	СВ	GLU			31.035	34.528	11.965		55.54	6
		ATOM	479	CG	GLU			32.224	33.584	12.104		40.00	6
L.		ATOM	480	CD	GLU			33.432	34.023	11.310		40.00	6
	35	ATOM	481	OE1	GLU			33.350	35.040	10.555		40.00	8
	55	ATOM	482		GLU			34.506	33.356	11.415		40.00	8
ı.		ATOM	483	C	GLU			30.077	36.798	12.277		54.94	6
Û		MOTA	484	0	GLU			30.070	37.892	11.730		59.81	8
		ATOM	485	N	SER			29.009	36.212	12.810		52.95	7
	40	ATOM	486	CA	SER			27.695	36.812	12.839		50.10	6
	40								35.797				
		ATOM	487	CB	SER			26.701		13.402		48.23	6
		ATOM	488	OG	SER			27.183	35.239	14.615		48.71	8
		ATOM	489	С	SER			27.651	38.093	13.659		50.61	6
	4.5	ATOM	490	0	SER			26.885	38.992	13.354		52.19	8
	45	ATOM	491	N	GLU			28.495	38.168	14.687		45.64	7
		ATOM	492	CA	GLU			28.567	39.341	15.546		43.35	6
		ATOM	493	CB	GLU			28.830	40.608	14.711		42.74	6
		ATOM	494	CG	GLU			30.148	40.606	13.945		50.32	6
		ATOM	495	CD	GLU			30.451	41.925	13.313	1.00	56.34	6
	50	ATOM	496	OE1	GLU	A	326	31.509	42.046	12.649	1.00	59.31	8
		ATOM	497	OE2	GLU	Α	326	29.656	42.890	13.452	1.00	55.74	8
		ATOM	498	С	GLU	A	326	27.288	39.526	16.340	1.00	40.23	6
		ATOM	499	0	GLU	A	326	26.695	40.603	16.340	1.00	40.44	8
		ATOM	500	N	THR			26.888	38.474	17.051	1.00	35.90	7
	55	ATOM	501	CA	THR			25.663	38.506	17.860		37.29	6
		ATOM	502	СВ	THR			24.466	38.057	17.024		37.63	6
		ATOM	503	OG1	THR			24.661	36.709	16.580		38.12	8
		ATOM	504	CG2	THR			24.269	38.965	15.810		39.90	6
		•								*			

	5	ATOM	505	С	THR	Α	327	25.767	37.562	19.038		39.49	. 6
		ATOM	506	0	THR	A	327	26.284	36.458	18.903	1.00	40.50	8
		MOTA	507	N	LEU	A	328	25.250	37.987	20.184	1.00	36.64	7
		ATOM	508	CA	LEU	A	328	25.264	37.141	21.381	1.00	37.73	6
		ATOM	509	СВ	LEU	Α	328	25.148	37.999	22.650	1.00	37.78	6
	10	ATOM	510	CG			328	26.102	39.150	22.843	1.00	36.26	6
		ATOM	511	CD1				26.066	39.623	24.272	1.00	36.56	6
		ATOM	512		LEU			27.481	38.688	22.500		39.85	6
		ATOM	513	C	LEU			24.063	36.220	21.244		37.27	6
		ATOM	514	0			328	23.306	36.337	20.279		34.96	8
	15	ATOM	515	N			329	23.891	35.317	22.205		39.73	7
	13								34.376	22.203	•	40.81	6
		ATOM	516	CA			329	22.785					
		ATOM	517	СВ			329	23.241	32.991	21,699		42.67	6
		ATOM	518	OG1				23.879	33.103	20.421		42.52	8
		ATOM	519	CG2				22.026	32.057	21.589		43.52	6
	20	ATOM	520	С	THR			22.168	34.245	23.548		44.31	6
		MOTA	521	0			329	22.526	33.370	24.320		43.72	8
		MOTA	522	N			330	21.237	35.149	23.830		44.62	7
		ATOM	523	CA	LEU	A	330	20.532	35.170	25.111		45.09	6
		ATOM	524	CB	LEU	Α	330	19.677	36.444	25.195	1.00	44.66	6
ū	25	MOTA	525	CG	LEU	Α	330	20.436	37.750	25.259	1.00	51.06	6
W.		ATOM	526	CD1	LEU	Α	330	21.405	37.831	24.104	1.00	48.58	6
Ü		ATOM	527	CD2	LEU	A	330	19.466	38.909	25.238	1.00	45.18	6
4		ATOM	528	С	LEU	A	330	19.656	33.919	25.301	1.00	48.06	. 6
N.		ATOM	529	0			330	19.049	33.422	24.359	1.00	49.33	8
4	30	ATOM	530	N	ASN			19.618	33.431	26.540		52.20	7
1.0		ATOM	531	CA	ASN			18.842	32.256	26.913		54.41	6
1 !		ATOM	532	СВ			331	17.361	32.628	27.009		54.94	6
		ATOM	533	CG	ASN			16.724	32.112	28.269		60.35	6
لدا		ATOM	534		ASN			17.124	32.505	29.383		61.84	8
ليا	35	ATOM	535		ASN			15.750	31.238	28.117		65.92	7
	33	ATOM	536	C	ASN			19.016	31.108	25.934		58.00	6
Ü			537	0	ASN			18.243	30.157	25.934		60.17	8
ij		ATOM	538		GLY			20.063	31.196	25.114		58.45	7
		ATOM		N								58.55	6
	40	ATOM	539	CA	GLY			20.341	30.161	24.131			6
	40	ATOM	540	С	GLY			19.316	30.016	23.021		59.79	
		ATOM	541	0	GLY			19.413	29.094	22.213		61.32	8
		ATOM	542	N	GLU			18.346	30.929	22.983		60.28	7
		ATOM	543	CA	GLU			17.294	30.883	21.985		59.13	6
	4.5	ATOM	544	CB	GLU			15.919	30.875	22.662		62.40	6.
	45	ATOM	545	CG	GLU			15.667	29.750	23.658		75.69	6
		ATOM	546	CD	GLU			14.341	29.865	24.346		80.41	6
		ATOM	547		GLU			14.052	30.932	24.945		79.98	8
		ATOM	548	OE2	GLU			13.549	28.884	24.329	1.00	83.81	8
		MOTA	549	С	GLU	Α	333	17.356	32.090	21.073	1.00	57.18	6
	50	ATOM	550	0	GLU	Α	333	17.239	31.969	19.852	1.00	57.50	8
		ATOM	551	N	MET	Α	334	17.512	33.258	21.696	1.00	55.20	7
		ATOM	552	CA	MET	Α	334	17.561	34.529	20.980	1.00	50.85	6
		ATOM	553	СВ	MET			16.751	35.556	21.763	1.00	48.70	6
		ATOM	554	CG	MET			16.859	36.947	21.212		45.39	6
	55	ATOM	555	SD	MET			15.881	38.186	22.127		44.56	16
		ATOM	556	CE	MET			14.229	37.371	22.113		45.25	6
		ATOM	557	С	MET			18.956	35.087	20.713		51.59	6
		ATOM	558	0	MET			19.739	35.268	21.633		52.52	8
						-	-						

	5	ATOM	559	N	ALA .	A	335	19.234	35.371	19.444	1.00	51.00	7
		ATOM	560	CA	ALA	A	335	20.520	35.932	19.039	1,00	48.98	6
		ATOM	561	СВ	ALA	A	335	20.997	35.254	17.768	1.00	47.86	6
		ATOM	562	С	ALA	A	335	20.342	37.420	18.805	1.00	51.01	6
		ATOM	563	0	ALA	A	335	19.594	37.830	17.919	1.00	51.61	8
	10	ATOM	564	N	VAL A	A	336	21.024	38.232	19.612	1.00	46.62	7
		ATOM	565	CA	VAL .			20.910	39.699	19.502		42.35	6
		ATOM	566	СВ	VAL			20.517	40.325	20.840		42.41	6
		ATOM	567		VAL			19.242	39.691	21.361		42.00	6
		ATOM	568	CG2				21.639	40.211	21.852		40.32	6
	15	ATOM	569	C	VAL			22.204	40.321	19.036		45.33	6
	13	ATOM	570	0	VAL			23.263	39.691	19.025		47.42	8
		ATOM	571	N	THR			22.090	41.590	18.668		41.60	7
		ATOM	572	CA	THR			23.230	42.377	18.175		39.69	6
		ATOM	573	CB	THR			22.882	43.061	16.852		41.35	6
	20	ATOM	574	0G1	THR A			21.987	44.157	17.080		49.35	8
	20		575	CG2				22.216	42.067	15.904		49.33	6
		ATOM							43.481	19.159		37.88	6
		ATOM	576	С	THR A			23.588					
.==		ATOM	577	0	THR A			22.734	43.989	19.892		34.06	8 7
	25	ATOM	578	N	ARG A			24.865	43.849	19.138		37.61	
Ü	25	ATOM	579	CA	ARG A			25.388	44.919	19.984		38.68	6
ľ		MOTA	580	CB	ARG A			26.669	45.479	19.351		35.95	6
(Ľ) ▲		ATOM	581	CG	ARG			27.250	46.713	20.038		38.83	6
المهادة المهادة		ATOM	582	CD	ARG			28.443	47.254	19.247		35.88	6
		ATOM	583	NE	ARG A			29.559	46.320	19.175		37.42	7
_{ -#	30	ATOM	584	CZ	ARG A			30.449	46.122	20.145		30.20	б
		ATOM	585		ARG A			30.338	46.791	21.295		27.98	7
		ATOM	586		ARG A			31.433	45.240	19.954		27.40	7
ري زيرا		ATOM	587	С	ARG A			24.333	46.010	20.085	1.00	38.09	6
1.1		ATOM	588	0	ARG A			23.894	46.397	21.169		34.12	8
ليا (1)	35	ATOM	589	N	GLY Z			23.915	46.496	18.922		41.25	7
Ü		MOTA	590	CA	GLY Z			22.918	47.547	18.890		41.35	6
Ü		MOTA	591	С	GLY A	A	339	21.692	47.140	19.672		41.23	6
•		ATOM	592	0	GLY A			21.445	47.671	20.750		38.30	8
		ATOM	593	N	GLN A			20.924	46.203	19.105		38.58	7
	40	ATOM	594	CA	GLN A	A	340	19.701	45.700	19.729		40.79	б
		ATOM	595	CB	GLN A	A	340	19.436	44.260	19.253	1.00	40.82	6
		ATOM	596	CG	GLN A	Ą	340	19.087	44.146	17.767	1.00	41.10	6
		MOTA	597	CD	GLN A	A	340	18.876	42.705	17.305	1.00	48.84	6
		ATOM	598	OE1	GLN A	Ą	340	19.826	41.888	17.309	1.00	50.53	8
	45	ATOM	599	NE2	GLN A	Ą	340	17.650	42.393	16.907	1.00	54.25	7
		ATOM	600 ,	С	GLN A	Ą	340	19.779	45.750	21.263	1.00	41.50	6
		ATOM	601	0	GLN A	Ą	340	18.998	46.444	21.923	1.00	42.72	8
		ATOM	602	N	LEU A	A	341	20.758	45.026	21.806	1.00	42.00	7
		ATOM	603	CA	LEU A			20.952	44.947	23.243	1.00	38.10	6
	50	ATOM	604	СВ	LEU A			22.209	44.145	23.575		36.66	6
		ATOM	605	CG	LEU A			22.361	43.804	25.029		39.94	6
		ATOM	606	•	LEU A			21.219	42.884	25.410		34.98	6
		ATOM	607		LEU A			23.685	43.128	25.284		40.95	6
		ATOM	608	C	LEU A			21.072	46.321	23.860		36.37	6
	55	ATOM	609	0	LEU A			20.484	46.588	24.892		37.89	8
		ATOM	610	N	LYS A			21.848	47.184	23.209		33.29	7
		ATOM	611	CA	LYS ?			22.089	48.546	23.679		35.17	6
		ATOM	612	СВ	LYS A			23.057	49.242	22.721		34.97	6
			~			-							_

	5	ATOM	613	CG	LYS	A	342	23.655	50.536	23.240	1.00	40.00	6
		ATOM	614	CD	LYS	A	342	24.673	51.109	22.245	1.00	34.48	6
		ATOM	615	CE	LYS	Α	342	25.514	52.229	22.873	1.00	37.54	6
		ATOM	616	NZ	LYS	A	342	26.655	52.634	21.987	1.00	42.32	7
		ATOM	617	С	LYS	A	342	20.796	49.349	23,774	1.00	38.29	8
	10	ATOM	618	0	LYS	A	342	20.345	49.711	24.861	1.00	36,23	8
		ATOM	619	N	ASN			20.223	49.622	22.603	1.00	39.25	7
		ATOM	620	CA	ASN			18.993	50.385	22.485	1.00	40.19	6
		ATOM	621	СВ	ASN			18.521	50.373	21.033		37.96	6
		ATOM	622	CG	ASN			19.664	50.550	20.052		39.22	6
	15	ATOM	623	OD1				20.428	51.537	20.125		42.37	8
		ATOM	624	ND2				19.773	49.612	19.125		42.19	7
		ATOM	625	C	ASN			17.928	49.748	23.375		40.12	6
		ATOM	626	0	ASN			17.010	50.417	23.859		36.01	8
		ATOM	627	N	GLY			18.073	48.433	23.568		40.95	7
	20	ATOM	628	CA	GLY			17.152	47.670	24.394		39.25	6
	20	ATOM	629	C	GLY			17.039	48.092	25.842		38.26	6
		ATOM	630	0	GLY			16.072	47.724	26.512		35.69	8
		ATOM	631	N	GLY			18.017	48.857	26.312		35.89	7
		ATOM	632	CA	GLY			17.964	49.301	27.706		34.00	6
	25			CA	GLY			19.273	49.199	28.443		38.64	6
Ü	23	ATOM ATOM	633		GLY			19.273				38.14	. 8
IJ			634	0					49.888	29.441		39.52	7
ij		ATOM	635	N Cr	LEU			20.170	48.337	27.973			
ال: ' ال: '		ATOM	636	CA	LEU			21.444	48.180	28.649		36.05	6
j.	20	ATOM	637	CB	LEU			22.124	46.876	28.209		35.72	
ا الرا	30	ATOM	638	CG	LEU			21.355	45.617	28.501		34.89	6
		ATOM	639	CD1	LEU			22.295	44.413	28.422		44.09	6
		ATOM	640	CD2	LEU			20.786	45.721	29.902		34.84	6
أبدأ		ATOM	641	C	LEU			22.358	49.361	28.396		33.52	6
lil	2.5	ATOM	642	0	LEU			23.267	49.653	29.178		35.58	8
	35	ATOM	643	N	GLY			22.087	50.056	27.295		30.47	7
ιĒ		ATOM	644	ÇA	GLY			22.909	51.192	26.931		33.01	6
Q, Q,		ATOM	645	С	GLY			24.360	50.768	26.747		30.72	6
. 223		ATOM	646	0	GLY			24.669	49.775	26.082		30.89	8
		ATOM	647	N	VAL			25.244	51.556	27.355		31.30	7
	40	ATOM	648	CA	VAL			26.671	51.325	27.286		31.27	6
		ATOM	649	CB	VAL			27.441	52.294	28.184		31.66	6
		ATOM	650		VAL			27.067	52.107			20.19	6
		ATOM	651		VAL			28.931	52.138	27.986		24.77	6
		MOTA	652	С	VAL			27.063	49.892	27.678		33.84	6
	45	MOTA	653	0	VAL			28.095	49.392	27.225		29.99	8
		ATOM	654	N	VAL			26.253	49.227	28.514		33.31	7
		MOTA	655	CA	VAL	A	349	26.568	47.881	28.906		32.23	6
		ATOM	656	CB	VAL	А	349	25.581	47.259	29.858	1.00	32.59	6
		ATOM	657	CG1	VAL	Α	349	25.865	45.795	29.985	1.00	33.68	6
	50	ATOM	658	CG2	VAL	Α	349	25.687	47.899	31.213	1.00	32.30	6
		ATOM	659	C	VAL	Α	349	26.706	46.985	27.726	1.00	34.91	6
		ATOM	660	0	VAL	Α	349	27.583	46.136	27.735	1.00	33.73	8
		ATOM	661	N	SER	Α	350	25.875	47.134	26.702	1.00	32.81	7
		ATOM	662	CA	SER	Α	350	26.001	46.252	25.556	1.00	30.10	6
	55	ATOM	663	СВ	SER			25.119	46.665	24.411	1.00	24.95	6
		ATOM	664	OG	SER			25.209	45.675	23.394		23.16	8
		ATOM	665	С	SER			27.445	46.257	25.129		31.59	6
		ATOM	666	0	SER			28.116	45.244	25.284		37.62	8

	5	MOTA	667	N	ASP	Α	351	27.945	47.367	24.591	1.00	28.60	7
		ATOM	668	CA	ASP	A	351	29.351	47.437	24.183	1.00	29.82	6
		ATOM	669	СВ	ASP			29.808	48.891	24.105	1.00	27.49	6
		MOTA	670	CG	ASP			28.875	49.744	23.303		30.22	6
			671	OD1				28.055	50.483	23.909		32.61	8
	10	MOTA											
	10	MOTA	672	OD2				28.942	49.714	22.044		30.02	8
		MOTA	673	С	ASP			30.173	46.653	25.231		30.63	6
		ATOM.	674	0	ASP	A	351	30.981	45.792	24.903	1.00	29.54	8
		ATOM	675	N	ALA	Α	352	29.939	46.949	26.503	1.00	25.33	7
		MOTA	676	CA	ALA	Α	352	30.623	46.280	27.602	1.00	28.59	6
	15	ATOM	677	CB	ALA	Α	352	30.072	46.799	28.922	1.00	20.95	6
		ATOM	678	C.	ALA			30.492	44.756	27.527		29.69	6
		ATOM	679	ō	ALA			31.481	44.054	27.587		30.36	8
			680		ILE			29.260	44.260	27.413		27.63	7
		ATOM		N							-		
		ATOM	681	CA	ILE			29.003	42.832	27.326		27.55	6
	20	ATOM	682	CB	ILE			27.512	42.528	27.429		28.04	6
		ATOM	683	CG2	ILE			27.269	41.042	27.289		23.68	6
		ATOM	684	CG1	ILE	A	353	26.955	42.965	28.789	1.00	27.33	6
		ATOM	685	CD1	ILE	A	353	25.452	42.688	28.944	1.00	26.23	6
		ATOM	686	С	ILE	A	353	29.534	42.207	26.054	1.00	30.88	6
Ð	25	ATOM	687	0	ILE	Α	353	30.007	41.076	26.068	1.00	31.22	8
ľ		ATOM	688	N	PHE	Α	354	29.426	42.917	24.939	1.00	29.86	7
D		ATOM	689	CA	PHE			29.922	42.369	23.686		31.08	6
طه		ATOM	690	СВ	PHE			29.371	43.146	22.487		28.80	6
		ATOM	691	CG	PHE			28.029	42.643	21.988		28.80	6
 	30	ATOM	692	CD1				26.872	42.842	22.724		30.96	6
إيها	30												
E1 -		ATOM	693	CD2	PHE			27.950	41.953	20.783		29.45	6
		ATOM	694	CE1	PHE			25.657	42.360	22.250		27.12	6
لبا		ATOM	695	CE2	PHE			26.738	41.470	20.305		25.19	6
		ATOM	696	CZ	PHE			25.590	41.672	21.038		28.09	6
	35	ATOM	697	С	PHE	A	354	31.444	42.399	23.682	1.00	29.17	6
Ü		ATOM	698	0	PHE	Α	354	32.087	41.389	23.398	1.00	32.62	8
Ď		ATOM	699	N	ASP	A	355	32.013	43.569	23.980	1.00	23.86	7
• ~		ATOM	700	CA	ASP	Α	355	33.466	43.739	24.030	1.00	25.34	6
		ATOM	701	СВ	ASP	Α	355	33.820	45.053	24.737	1.00	21.41	6
	40	ATOM	702	CG	ASP	А	355	33.841	46.226	23.809	1.00	32.08	6
		ATOM	703		ASP			32.979	46.322	22.902		33.58	8
		ATOM	704		ASP			34.711	47.117	23.968		33.20	8
		ATOM	705	C	ASP			34.074	42.559	24.781		27.86	6
		ATOM	706	0	ASP			35.131	42.053	24.410		32.42	8.
	45											26.84	7
	43	ATOM	707	N ·	LEU			33.387	42.128	25.843			
		ATOM	708	CA	LEU			33.845	40.993	26.642		28.66	6
		ATOM	709	СВ	LEU			32.893	40.747	27.825		25.37	6
		ATOM	710	CG	LEU			33.235	39.608	28.755		27.61	6
		ATOM	711	CD1	LEU	Α	356	34.538	39.917	29.451	1.00	25.43	6
	50	ATOM	712	CD2	LEU	A	356	32.149	39.414	29.765	1.00	27.49	6
		ATOM	713	С	LEU	Α	356	33.849	39.779	25.723	1.00	30.44	6
		ATOM	714	0	LEU	Α	356	34.884	39.160	25.470	1.00	31.55	8
		ATOM	715	N	GLY			32.661	39.451	25.218		32.69	7
		ATOM	716	CA	GLY			32.511	38.304	24.338		29.87	6
	55	ATOM	717	C	GLY .			33.653	38.157	23.359		33.12	6
		ATOM	718	0	GLY			34.302	37.110	23.323		29.41	8
		ATOM	719	N	MET .			33.876	39.206	22.564		33.31	7
		ATOM	720	CA	MET .			34.949	39.206	21.580		35.87	6
		AT OFF	, 20	CA	net.	•	JJ0	J71.747	33.200	21.300	1.00	39.01	O

	5	ATOM	721	CB	MET	A	358	35.143	40.606	21.009	1.00	34.56	6
		ATOM	722	CG	MET	A	358	33.949	41.145	20.290	1.00	46.43	6
		ATOM	723	SD	MET	A	358	34.207	42.776	19.514		42.13	16
		MOTA	724	CE	MET			34.507	43.855	20.994		44.29	6
		ATOM	725	С	MET			36.256	38.762	22.230		33.26	6
	10	ATOM	726	0	MET	A	358	36,894	37.807	21.795	1.00	36.39	8
		ATOM	727	N	SER	A	359	36.637	39.491	23.281	1.00	33.31	7
		ATOM	728	CA	SER	A	359	37.860	39.226	24.019		34.39	6
		MOTA	729	CB	SER	A	359	37.869	40.067	25.295	1.00	30.84	6
		MOTA	730	OG	SER	A	359	39.135	40.008	25,930	1.00	47.14	8
	15	MOTA	731	С	SER	A	359	37.984	37.748	24.357	1.00	36.43	6
		ATOM	732	0	SER	Α	359	38.900	37.078	23.896	1.00	35.46	8
		ATOM	733	N	LEU	Α	360	37.046	37.264	25.166	1.00	36.74	7
		MOTA	734	CA	LEU	A	360	37.017	35.875	25.604	1.00	35.44	6
		MOTA	735	СВ	LEU	A	360	35.708	35.579	26.336	1.00	34.16	6
	20	ATOM	736	CG	LEU	A	360	35.471	36.290	27.644	1.00	34.59	6
		ATOM	737	CD1	LEU	A	360	34.225	35.765	28.312	1.00	33.53	6
		ATOM	738	CD2	LEU	A	360	36.658	36.052	28.541	1.00	31.69	6
		ATOM	739	С	LEU	Α	360	37.203	34.862	24.500	1.00	38.72	6
		ATOM	740	0	LEU	Α	360	37.820	33.828	24.728	1.00	38.29	8
Ö	25	ATOM	741	N	SER	Α	361	36.635	35.147	23.328	1.00	40.96	7
ľU		ATOM	742	CA	SER	A	361	36.777	34.262	22.186	1.00	45.67	6
Ü		ATOM	743	CB	SER	A	361	36.518	35.045	20.904	1.00	46.45	6
a		ATOM	744	OG	SER	A	361	35.210	35.598	20.906	1.00	51.81	8
'n		ATOM	745	C	SER	A	361	38.166	33.627	22.145	1.00	44.49	6
	30	ATOM	746	0	SER	A	361	38.347	32.538	21.625	1.00	46.67	8
,A]		ATOM	747	N	SER	A	362	39.134	34.348	22.703	1.00	41.44	7
E)		ATOM	748	CA	SER	A	362	40.525	33.918	22.790	1.00	42.13	6
		ATOM	749	CB	SER	A	362	41.408	35.131	23.066	1.00	42.61	6
IJ		ATOM	750	OG	SER	A	362	41.219	36.136	22.076	1.00	51.87	8
	35	MOTA	751	С	SER	А	362	40.798	32.870	23.876		38.41	6
Ü		MOTA	752	0	SER	Α	362	41.553	31.938	23.641	1.00	38.01	8
Ö		ATOM	753	N	PHE			40.198	33.039	25.058		34.55	7
` =		ATOM	754	CA	PHE			40.417	32.126	26.174		32.96	6
•		ATOM	755	CB	PHE			39.832	32.718	27.447		31.99	6
	40	ATOM	756	CG	PHE			40.448	34.036	27.840		29.97	6
		ATOM	757		PHE			40.102	34.650	29.020		30.61	6
		ATOM	758		PHE			41.379	34.646	27.014		32.02	6
		ATOM	759		PHE			40.685	35.856	29.391		33.67	6
		ATOM	760		PHE			41.959	35.843	27.377		30.91	6
	45	ATOM	761	CZ	PHE			41.615	36.456	28.558		29.33	6
		ATOM	762	С	PHE			39.883	30.716	25.967		30.52	6
		ATOM	763	0	PHE			40.436	29.766	26.526		32.19	8
		ATOM	764	N	ASN			38.817	30.570	25.175		33.51	7
		ATOM	765	CA	ASN			38.239	29.264	24.918		38.03	6
	50	ATOM	766	CB	ASN			39.240	28.404	24.139		42.32	6
		ATOM	767	CG	ASN			39.696	29.065	22.861		53.11	6
		ATOM	768		ASN			38.874	29.330	21.954		59.51	8
		ATOM	769		ASN			40.986	29.330	22.772		55.95	7
	55	ATOM	770	С	ASN			37.916	28.572	26.235		31.89	6
	55	ATOM	771	0	ASN			38.324	27.428	26.457		30.28	8
		ATOM	772	N	LEU			37.176	29.271	27.094		27.62	7
		ATOM	773	CA	LEU			36.806	28.743	28.406		29.36	6
		MOTA	774	СВ	LEU	A	365	36.195	29.866	29.237	1.00	27.54	6

	5	MOTA	775	CG	LEU	A	365	36.990	31.150	29.185	1.00	38.91	6
		ATOM	776	CD1	LEU	A	365	36.316	32.216	30.036	1.00	34.47	6
		MOTA	777	CD2	LEU	Α	365	38.406	30.883	29.663	1.00	34.24	6
		ATOM	778	С	LEU			35.830	27.590	28.262	1.00	26.23	6
		MOTA	779	0	LEU			34.890	27.649	27.472		27.06	8
	10	ATOM	780	N	ASP			36.083	26.528	29.021		25.23	7
		MOTA	781	CA	ASP			35.213	25.358	28.988		26.07	6
		ATOM	782	CB	ASP			36.027	24.049	29.033		29.68	6
			783	CG	ASP			36.799	23.874	30.303	_	35.74	6
		ATOM											
	1 5	ATOM	784		ASP			36.285	24.177	31.402		36.78	8
	15	ATOM	785		ASP			37.959	23.386	30.240		41.23	8
		ATOM	786	C	ASP			34.278	25.434	30.181		27.70	6
		MOTA	787	0	ASP			34.587	26.097	31.173		31.94	8
		ATOM	788	N	ASP			33.141	24.743	30.066		29.18	7
		MOTA	789	ÇA	ASP			32.120	24.679	31.120		32.72	6
	20	MOTA	790	CB	ASP	Α	367	31.472	23.284	31.147	1.00	38.04	6
		MOTA	791	CG	ASP	A	367	30.806	22.924	29.854	1.00	42.43	6
		ATOM	792	ODl	ASP	A	367	29.877	23.650	29.409	1.00	35.95	8
		ATOM	793	OD2	ASP	A	367	31.186	21.884	29.250	1.00	51.42	8
		ATOM	794	С	ASP	А	367	32.754	24.969	32.482	1.00	33.71	6
ij	25	ATOM	795	0	ASP	Α	367	32.484	26.000	33.098	1.00	38.30	8
ľŪ		ATOM	796	N	THR			33.602	24.032	32.919	1.00	31.06	7
Ø		ATOM	797	CA	THR			34.329	24.124	34.181		26.28	· 6
		ATOM	798	СВ	THR			35.559	23.222	34.141		27.30	6
الم		ATOM	799	OG1	THR			35.161	21.871	33.885		33.42	8
	30	ATOM	800	CG2	THR			36.323	23.303	35.454		25.16	6
N.	50	ATOM	801	C	THR			34.764	25.557	34.479		21.13	6
1 :		ATOM	802	0	THR			34.408	26.153	35.503		23.17	8
		ATOM	803	N	GLU			35.545	26.092	33.551		21.32	7
ليرا										33.661		28.00	6
	25	ATOM	804	CA	GLU			36.065	27.435				6
	35	ATOM	805	CB	GLU			36.960	27.707	32.453		32.79	
Ū		ATOM	806	CG	GLU			38.089	26.663	32.346		36.29	6
Ū		ATOM	807	CD	GLU			38.906	26.747	31.110		41.03	6
~		ATOM	808	OE1				38.337	26.744	29.994		42.05	8
	40	ATOM	809		GLU			40.158	26.795	31.218		42.03	8
	40	ATOM	810	С	GLU			34.953	28.471	33.821		25.57	6
		ATOM	811	0	GLU			34.987	29.256			20.56	8
		ATOM	812	N	VAL			33.967	28.463	32.921		25.39	7
		ATOM	813	CA	VAL			32.849	29.396	33.029		25.99	6
		ATOM	814	CB	VAL			31.763	29.131	31.987		26.15	6
	45	MOTA	815		VAL			30.609	30.093	32.183	1.00	27.65	6
		ATOM	816	CG2	VAL	A	370	32.306	29.251	30.592	1.00	17.70	6
		ATOM	817	С	VAL	A	370	32.245	29.209	34.412	1.00	26.49	6
		ATOM	818	0	VAL	A	370	32.012	30.170	35,147	1.00	28.16	8
		ATOM	819	N	ALA	A	371	31.988	27.947	34.739	1.00	21.01	7
	50	ATOM	820	CA	ALA	A	371	31.393	27.554	36.011	1.00	19.57	6
		ATOM	821	СВ	ALA	A	371	31.441	26.039	36.145	1.00	18.62	6 ·
		ATOM	822	С	ALA			32.116	28.211	37.177		23.48	6
		ATOM	823	0	ALA			31.531	28.989	37.931		32.67	8
		ATOM	824	N	LEU			33.401	27.893	37.305		22.89	7
	55	ATOM	825	CA	LEU			34.217	28.447	38.369		23.28	6
		MOTA	826	CB	LEU			35.675	27.996	38.178		27.76	6
		ATOM	827	CG	LEU			35.943	26.524	38.415		21.18	6
		ATOM	828		LEU			37.356	26.171	38.049		27.64	6
		00	J 2 U	UDI	~	4.7	J , L	57.550	_0.1,1	30.043	1.00	_ , . UI	•

	5	MOTA	829	CD2	LEU	A	372 .	35.675	26.204	39.880		20.90	6
		MOTA	830	С	LEU	A	372	34.098	29.966	38.396		21.34	6
		MOTA	831	0	LEU	A	372	33.828	30.572	39.439	1.00	23.16	8
		MOTA	832	N	LEU	A	373	34.288	30.561	37.223	1.00	24.42	7
		MOTA	833	CA	LEU	A	373	34.214	32.007	37.074	1.00	23.78	6
	10	ATOM	834	CB	LEU	A	373	34.296	32.360	35.575	1.00	22.18	6
		MOTA	835	CG	LEU	Α	373	34.784	33.726	35.165	1.00	31.52	6
		ATOM	836	CD1	LEU	Α	373	36.000	34.084	35.962	1.00	31.93	6
		ATOM	837	CD2	LEU	A	373	35.103	33.720	33.693	1.00	30.24	6
		ATOM	838	C	LEU	A	373	32.904	32.480	37.720	1.00	25.69	6
	15	ATOM	839	0	LEU	Α	373	32.895	33.410	38.532	1.00	30.13	8
		ATOM	840	N	GLN	A	374	31.814	31.800	37.368	1.00	26.24	7
		ATOM	841	CA	GLN	A	374	30.487	32.104	37.896	1.00	21.60	6
		ATOM	842	CB	GLN	A	374	29.454	31.121	37.335	1.00	24.57	6
		ATOM	843	CĢ	GLN	A	374	29.310	31.145	35.821	1.00	21.02	6
	20	ATOM	844	CD	GLN	A	374	28.224	30.201	35.331	1.00	22.86	6
		ATOM	845	OE1	GLN	Α	374	28.037	30.042	34.123	1.00	24.07	8
		MOTA	846	NE2	GLN	A	374	27.515	29.590	36.249	1.00	25.59	7
		ATOM	847	C	GLN	Α	374	30.421	32.039	39.422	1.00	20.66	6
(3		ATOM	848	0	GLN	Α	374	29.717	32.832	40.048	1.00	24.47	8
Ū	25	ATOM	849	N	ALA	Α	375	31.136	31.074	40.004	1.00	16.26	7
IV		MOTA	850	CA	ALA	Α	375	31.155	30.889	41.445	1.00	17.16	6
Ü		ATOM	851	СВ	ALA	A	375	31.805	29.568	41.780	1.00	19.53	6
14	•	ATOM	852	С	ALA	Α	375	31.907	32.025	42.108	1.00	25.13.	6
'*\J		ATOM	853	0	ALA	A	375	31.397	32.646	43.034	1.00	23.81	8
1=	30	ATOM	854	N	VAL	A	376	33.122	32.277	41.611	1.00	24.57	7
W		ATOM	855	CA	VAL	Α	376	33.959	33.354	42.118	1.00	25.80	6
E!		ATOM	856	СВ	VAL	Α	376	35.101	33.658	41.164	1.00	26.48	6
		ATOM	857	CG1	VAL	A	376	35.926	34.812	41.697	1.00	23.20	6
ĻŲ		ATOM	858	CG2	VAL	A	376	35.959	32.429	40.952	1.00	19.08	6
	35	MOTA	859	С	VAL	A	376	33.107	34.599	42.312	1.00	25.69	6
		ATOM	860	0	VAL	Α	376	33.297	35.364	43.251	1.00	27.87	8
Û		ATOM	861	N .	LEU	A	377	32.159	34.781	41.399	1.00	23.09	7
٠Đ		ATOM	862	CA	LEU	Α	377	31.242	35.915	41.423	1.00	22.86	6
		ATOM	863	CB	LEU	A	377	30.540	36.031	40.061	1.00	18.50	6
	40	ATOM	864	CG	LEU	Α	377	31.424	36.368	38.885	1.00	22.65	6
		ATOM	865	CD1	LEU	A	377	30.689	36.227	37.601	1.00	16.70	6
		ATOM	866	CD2	LEU	A	377	31.916	37.776	39.051	1.00	19.58	6
		ATOM	867	С	LEU	Α	377	30.228	35.719	42.543	1.00	26.14	6
		ATOM	868	0	LEU	Α	377	30.131	36.532	43.452	1.00	20.62	8
	45	ATOM	869	N	LEU	A	378	29.483	34.614	42.468	1.00	28.99	7
		MOTA	870	CA	LEU	Α	378	28.469	34.303	43.475	1.00	28.87	6
		ATOM	871	CB	LEU	Α	378	28.053	32.826	43.397	1.00	26.89	6
		ATOM	872	CG	LEU	Α	378	27.110	32.344	44.472	1.00	28.83	6
		ATOM	873	CD1	LEU	Α	378	25.915	33.252	44.525	1.00	27.97	6
	50	MOTA	874	CD2	LEU	Α	378	26.693	30.928	44.205	1.00	27.69	6
		MOTA	875	С	LEU	Α	378	28.992	34.617	44.853	1.00	31.09	6
		ATOM	876	0	LEU	A.	378	28.399	35.421	45.573	1.00	31.77	8
		ATOM	877	N	MET	Α	379	30.118	33.991	45.189	1.00	31.44	7
		ATOM	878	CA	MET	Α	379	30.736	34.141	46.494	1.00	32.62	6
	55	ATOM	879	CB	MET	A	379	31.690	32.960	46.744	1.00	31.45	6
		ATOM	880	CG	MET	A	379	30.984	31.595	46.792	1.00	38.75	6
		MOTA	881	SD	MET	A	379	29.741	31.626	48.107	1.00	41.27	16
		ATOM	882	CE	MET	A	379	28.896	30.036	47.851	1.00	35.68	6

	5	ATOM	883	С	MET	A	379	31.485	35.448	46.727	1.00	33.72	6
		MOTA	884	0	MET	Α	379	32.567	35.450	47.305	1.00	36.29	8
		ATOM	885	N	SER	А	380	30.889	36.555	46.315	1.00	34.49	7
		ATOM	886	CA			380	31.498	37.853	46.550		33.97	6
		ATOM	887	СВ			380	30.921	38.890	45.576		31.24	6
	10									•			
	10	ATOM	888	OG			380	31.205	38.543	44.230		39.42	8
		ATOM	889	C			380	31.179	38.239	47.992		39.69	6
		MOTA	890	0			380	30.029	38.446	48.357		44.64	8
		ATOM	891	N	SER	A	381	32.214	38.313	48.812	1.00	41.04	7
		ATOM	892	CA	SER	Α	381	32.060	38.640	50.216	1.00	44.91	6
	15	ATOM	893	CB	SER	Α	381	33.324	38.234	50.951	1.00	44.50	6
		ATOM	894	OG			381	34.431	39.002	50.510		45.42	8
		ATOM	895	С			381	31.795	40.106	50,499		44,59	6
		ATOM	896	Ō			381	31.476	40.470	51.618		49.32	8
		ATOM	897	N			382	31.939	40.942	49.486		43.75	7
	20	ATOM	898	CA			382	31.744					
	20								42.362	49.641		43.93	6
		MOTA	899	CB			382	32.673	43.111	48.677		48.39	6
		ATOM	900	CG			382	32.572	42.624	47.263		53.23	6
		MOTA	901		ASP			32.705	41.400	47.034		56.97	8
		MOTA	902		ASP			32.358	43.454	46.333		58.91	8
Ð	25	ATOM	903	С			382	30.314	42.885	49.507	1.00	41.09	6
IJ		ATOM	904	0	ASP	Α	382	30.048	44.036	49.845	1.00	40.93	8
Ø		ATOM	905	N	ARG	Α	383	29.397	42.049	49.034	1.00	42.63	7
dan		ATOM	906	CA	ARG	Α	383	28.036	42,485	48.876	1.00	43.32	6
,ef		MOTA	907	СВ	ARG	Α	383	27.138	41.332	48.443	1.00	42.31	6
_	30	ATOM	908	CG	ARG			27.651	40.399	47.352		40.83	6
ايه.		ATOM	909	CD			383	27.586	40.954	45.925		38.09	6
8!		ATOM	910	NE	ARG			27.768	39.878	44.975		37.33	7
		ATOM	911	CZ	ARG			28.037	40.058	43.693		38.35	6
			912		ARG								
Ų	35	ATOM		NH1				28.142	41.292	43.198		33.70	7
	33	MOTA	913		ARG		•	28.194	38.992	42.918		35.46	7
O,		ATOM	914	С	ARG			27.523	42.989	50.216		44.96	6
۱ ۵		ATOM	915	0	ARG			27.744	42.344	51.260		45.60	8
•		ATOM	916	N	PRO			26.852	44.144	50.223		45.33	7
		MOTA	917	CD	PRO			26.625	44.964	49.027	1.00	46.85	6
	40	MOTA	918	CA	PRO	A	384	26.298	44.738	51.446	1.00	47.37	6
		ATOM	919	CB	PRO	A	384	25.841	46.130	51.012	1.00	46.90	6
		ATOM	920	CG	PRO	Α	384	26.075	46.229	49.567	1.00	46.41	6
		ATOM	921	С	PRO	Α	384	25.158	43.919	52.049		48.29	6
		ATOM	922	0	PRO			24.404	43.264	51.329		48.34	8
	45	ATOM	923	N	GLY			25.039	43.983	53.383		49.88	7
	-	ATOM	924	CA	GLY			23.991	43.270	54.113		50.35	6
		ATOM	925	C	GLY			24.347	41.852	54.495		50.70	6
		ATOM	926	0	GLY			23.614	41.204				
										55.244		53.48	8
	50	ATOM	927	N	LEU			25.466	41.371	53.955		49.04	7
	50	ATOM	928	CA	LEU			25.901	40.017	54.215		50.53	6
		ATOM	929	СВ	LEU			27.224	39.751	53.492		45.17	6
		ATOM	930	CG	LEU			27.152	39.592	51.993		48.26	6
		ATOM	931		LEU			28.542	39.439	51.404		41.68	6
		ATOM	932		LEU			26.302	38.374	51.682	1.00	38.40	6
	55	ATOM	933	С	LEU	Α	386	26.045	39.776	55.691	1.00	52.13	6
		ATOM	934	0	LEU	A	386	26.296	40.692	56.459	1.00	53.67	8
		MOTA	935	N	ALA	Α	387	25.861	38.522	56.077		53.42	7
		ATOM	936	CA	ALA			25.976	38.129	57.470		56.01	6
										•			

	5	ATOM	937	CB	ALA	Α	387	24.802	37.234	57.854	1.00	56.47	6
		ATOM	938	Ç	ALA	A	387	27.289	37.385	57.659	1.00	55.52	6
		ATOM	939	0	ALA			28.275	37.940	58.134	1.00	53.75	8
		ATOM	940	N	CYS			27.273	36.120	57.253		56.03	7
		ATOM	941	CA	CYS			28.412	35.236	57.370		59.57	6
	10	ATOM	942	CB	CYS			27.923	33.803	57.172		59.23	6
	••	ATOM	943	SG	ÇYS			26.397	33.431	58.009		58.64	16
		ATOM	944	C	CYS			29.482	35.581	56.328		62.18	6
		ATOM	945	ŏ	CYS			29.720	34.821	55.400		67.88	8
		MOTA	946	N	VAL			30.110	36.747	56.495		60.78	7
	15	ATOM	947	CA	VAL			31.173	37.212	55.590		57.70	6
	1.5		948	СВ	VAL			31.740	38.567	56.024		57.09	6
		ATOM	949		VAL			32.795	39.037	55.041		59.03	6
		ATOM	950		VAL			30.640	39.598	56.171		53.98	6
		ATOM	951	C	VAL			32.297	36.182	55.550		57.77	6
	20	ATOM	952	0	VAL			32.358	35.336	54.662		60.94	8
	20	ATOM	953	N	ALA			33.182	36.292	56.528		52.68	7
		ATOM											6
			954	CA	ALA			34.347	35.431	56.684		48.41	6
2 8275.		ATOM	955	СВ	ALA			34.703	35.321	58.185		45.19	
	25	ATOM	956	C	ALA			34.224	34.040	56.082		47.63	6
:0	25	ATOM	957	0	ALA			35.107	33.597	55.348		51.95	8
IJ		ATOM	958	N	ARG			33.117	33.366	56.391		47.11	7
Ö		ATOM	959	CA	ARG			32.879	32.018	55.885		51.64	6
<u>-</u>		ATOM	960	СВ	ARG			31.520	31.498	56.383		54.22	6
	20	ATOM	961	CG	ARG			31.267	30.012	56.059		64.20	6
\-\ <u>\</u>	30	ATOM	962	CD	ARG			29.930	29.489	56.602		73.80	6
		MOTA	963	NE	ARG			29.787	28.044	56,454		79.76	7
		ATOM	964	CZ	ARG			30.573	27.140	57.043		84.27	6
Ų		ATOM	965		ARG			31.598	27.535	57.806		85.28	7
لَّرَا		MOTA	966		ARG			30.340	25.840	56.849		86.84	7
Š	35	ATOM	967	С	ARG			32.922	31.986	54.358		48.18	6
ű		ATOM	968	0	ARG			33.494	31.080	53.756		49.57	8
Ē		ATOM	969	N	ILE			32.281	32.993	53.762		45.01	7
.000		ATOM	970	CA	ILE			32.196	33.148	52.319		48.77	6
		ATOM	971	CB	ILE			31.224	34,297	51.963		46.45	6
	40	ATOM	972		ILE			31.241	34.582	50.479		42.35	6
		MOTA	973		ILE			29.791	33.953	52.402	1.00	49.69	6
		ATOM	974		ILE			28.792	35.039	52.113		51.09	6
		MOTA	975	С	ILE	A	392	33.554	33.356	51.641	1.00	50.90	6
		ATOM	976	0	ILE	A	392	33.914	32.605	50.732		52.21	8
	45	ATOM	977	N	GLU			34.298	34.374	52.071	1.00	50.43	7
		ATOM	978	CA	GLU	A	393	35.592	34.684	51.471	1.00	50.30	6
		ATOM	979	CB	GLU	A	393	36.437	35.561	52.387	1.00	53.97	6
		ATOM	980	CG	GLU	Α	393	36.558	36.966	51.844	1.00	62.18	6
		ATOM	981	CD	GLU	A	393	37.546	37.777	52.564	1.00	67.69	6
	50	ATOM	982	OE1	GLU	A	393	38.149	38.741	52.119	1.00	66.42	8
		ATOM	983	OE2	GLU	Α	393	37.856	37.640	53.729	1.00	70.64	8
		ATOM	984	С	GLU	A	393	36.341	33.429	51.230	1.00	49.31	6
		ATOM	985	0	GLU			36.755	33.089	50.125	1.00	49.53	8
		ATOM	986	N	LYS	A	394	36.552	32.730	52.303	1.00	46.07	7
	55	ATOM .	987	CA	LYS	A	394	37.265	31.543	52.078	1.00	45.76	6
		ATOM	988	СВ	LYS	A	394	37.396	30.800	53.373	1.00	43.85	6
		ATOM	989	CG	LYS	А	394	38.207	31.617	54.394	1.00	40.00	6
		ATOM	990	CD	LYS	A	394	39.372	32.374	53.705	1.00	40.00	6

	5	ATOM	991	CE	LYS	A	394	40.136	33.265	54.681	1.00	40.00	6
		ATOM	992	NZ	LYS	A	394	41.516	33.602	54.162	1.00	40.00	7
		MOTA	993	С	LYS	Α	394	36.568	30.778	50.966	1.00	46.69	6
		ATOM	994	0	LYS	A	394	37.215	30.427	49.988	1.00	49.13	8
		ATOM	995	N	TYR	Α	395	35.269	30.514	51.095	1.00	46.57	7
	10	ATOM	996	CA	TYR	Α	395	34.553	29.823	50.022	1.00	43.33	6
		ATOM	997	СВ	TYR	A	395	33.059	30.123	50.076	1.00	48.44	6
		MOTA	998	CG			395	32.275	29.236	50.994	1.00	53.83	6
		ATOM	999	CD1	TYR	Α	395	31.010	29.598	51.415	1.00	56.43	6
		ATOM	1000	CE1	TYR			30.266	28.769	52.252		59.73	6
	15	ATOM	1001	CD2	TYR			32.790	28.033	51.428		56.47	6
		ATOM	1002	CE2	TYR			32.054	27.198	52.265		62.60	6
		ATOM	1003	CZ			395	30.787	27.565	52.687		63.18	6
		ATOM	1004	ОН			395	30.059	26.753	53.528		64.46	8
		ATOM	1005	C			395	35.120	30.356	48.716		37.30	6
	20	ATOM	1006	0			395	35.643	29.601	47.908		34.10	8
	- •	ATOM	1007	N			396	35.029	31.670	48.522		31.92	7
		ATOM	1008	CA	GLN			35.563	32.273	47.305		34.81	6
		ATOM	1009	CB	GLN			35.403	33.801	47.329		32.64	6
		ATOM	1010	CG	GLN			36.088	34.485	46.162		29.57	6
Q,	25	ATOM	1011	CD	GLN			35.616	35.891	45.927		29.46	6
IJ		ATOM	1012	OE1	GLN			35,599	36.726	46.862		34.65	8
Ü		ATOM	1013	NE2	GLN			35.245	36.173	44.689		27.21	7
-		ATOM	1014	C	GLN			37.035	31.909	47.167		37.13	6
16		ATOM	1015	Ö	GLN			37.511	31.590	46.080		37.36	8
, e.j	30	ATOM	1016	N	ASP			37.751	31.970	48.285		38.61	7
, .		ATOM	1017	CA	ASP			39.164	31.642	48.298		40.37	6
ŧi.		ATOM	1018	СВ	ASP			39.757	31.869	49.704		40.51	6
		ATOM	1019	CG	ASP			39.813	33.319	50.095		43.77	6
الدا نيرا ا		ATOM	1020		ASP			40.397	34.123	49.334		46.50	8
لِيرا	35	ATOM	1021		ASP			39.299	33,702	51,184		51.34	8
		ATOM	1022	С	ASP			39.302	30.176	47.898		38.62	6
Ō		ATOM	1023	Ō	ASP			40.230	29.809	47.199		39.20	8
114		ATOM	1024		SER			38.350	29.359	48.344		37.84	7
		ATOM	1025	CA	SER			38.348	27.929	48.063		37.80	6
	40	ATOM	1026	СВ	SER			37.240	27.240	48.878		34.28	6
		ATOM	1027	OG	SER			37.297	25.826	48.755		46.60	8
		ATOM	1028	С	SER			38.164	27.639	46.581	•	38.41	6
		ATOM	1029	0	SER			38.677	26.642	46.075		39.98	8
		ATOM	1030	N	PHE			37.419	28.507	45.893		34.82	7
	45	ATOM	1031	CA	PHE			37.181	28.325	44.462		35.96	6
		ATOM	1032	СВ	PHE			35.873	28.983	44.015		35.75	6
		ATOM	1033	CG	PHE			34.632	28.216	44.403		39.30	6
		ATOM	1034		PHE			34.107	28.294	45.677		39.86	6
		ATOM	1035		PHE			34.018	27.393	43.488		36.81	6
	50	ATOM	1036		PHE			32.961	27.557	46.013		41.25	6
		ATOM	1037		PHE			32.880	26.661	43.825		43.61	6
		ATOM	1038	CZ	PHE			32.354	26.740	45.087		40.34	6
		ATOM	1039	C	PHE			38.328	28.890	43.630		33.48	6
		ATOM	1040	0	PHE			38.867	28.200	42.756		26.86	8
	55	ATOM	1041	N	LEU			38.680	30.156	43.877		31.47	7
		ATOM	1042	CA	LEU			39.754	30.796	43.132		37.41	6
		ATOM	1043	CB	LEU			40.179	32.100	43.814		34.24	6
		ATOM	1044	CG	LEU			39.239	33.265	43.628		35.10	6
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	5	MOTA	1045	CD1	LEU.	A	400	39.803	34.531	44.256	1.00	26.60	6
		ATOM	1046	CD2	LEU	A	400	39.065	33.479	42.137	1.00	29.44	6
		ATOM	1047	С	LEU	A	400	40.941	29.872	42.947	1.00	38.84	6
		ATOM	1048	0	LEU	A	400	41.367	29.632	41.821	1.00	40.38	8
		MOTA	1049	N	LEU	A	401	41.464	29.350	44.055	1.00	42.79	7
	10	ATOM	1050	CA	LEU	A	401	42.605	28.449	43.988	1.00	43.48	6
		ATOM	1051	СВ	LEU	Α	401	42.900	27.821	45.355	1.00	44.73	6
		MOTA	1052	CG	LEU	Α	401	44.105	26.899	45.354	1.00	51.39	6
		ATOM	1053	CD1				45.374	27.749	45.143		50.11	6
		ATOM	1054	CD2	LEU	A	401	44.205	26.122	46.662		49.30	6
	15	ATOM	1055	C	LEU			42.324	27.340	42.981		41.62	6
		ATOM	1056	0	LEU			43.052	27.180	42.004		45.14	8
		ATOM	1057	N	ALA			41.269	26.574	43.245		37.92	7
		ATOM	1058	CA	ALA			40.873	25.469	42.386		29.90	6
		ATOM	1059	CB	ALA			39.522	24.928	42.834		30.70	6
	20	ATOM	1060	C	ALA			40.798	25.909	40.929		28.88	6
	20	ATOM	1061	Ö	ALA			41.277	25.203	40.034		32.14	8
		MOTA	1061	N	PHE			40.200	27.086	40.707		31.07	7
		ATOM	1062		PHE			40.200	27.642	39.363		29.90	6
·			1063	CA	PHE				29.019			27.03	6
	25	ATOM		CB CG	PHE			39.379		39.438		26.97	6
ιυ U	23	ATOM	1065		PHE			38.943	29.574	38.100			
Ü		ATOM	1066	CD1				38.228	30.758	38.033		25.55	6
<u> </u>		ATOM	1067	CD2	PHE			39.224	28.905	36.925		19.75	6
, d		ATOM	1068	CE1	PHE			37.784	31.266	36.808		27.90	6
	20	ATOM	1069	CE2	PHE			38.780	29.416	35.694		22.56	6
أميا	30	ATOM	1070	CZ	PHE			38.063	30.596	35.640		22.24	6
e :		ATOM	1071	С	PHE			41.429	27.756	38.719		28.82	6
		ATOM	1072	0	PHE			41.666	27.210	37.646		26.00	8
لرا		ATOM	1073	N	GLU			42.329	28.463	39,402		30.25	7
	2.5	ATOM	1074	CA	GĻU			43.695	28.665	38.922		34.03	6
IJ D	35	ATOM	1075	CB	GLU			44.513	29.416	39.983		39.45	6
Q		ATOM	1076	CG	GLU			45.867	29.935	39.489		47.68	6
Ū		ATOM	1077	CD	GLU			46.734	30.507	40.571		54.02	6
_		MOTA	1078	OE1	GLU			46.236	31.298	41.408		57.27	8
		ATOM	1079	OE2	GLU			47.956	30.202	40.606		63.85	8
	40	ATOM	1080	С	GLU			44.352	27.322	38.634		36,01	6
		ATOM	1081	0	GLU			44.936	27.112	37.574		38.64	8
		ATOM	1082	N	HIS			44.259	26.420	39.610		29.56	7
		ATOM	1083	CA	HIS	A	405	44.840	25.093	39.468	1.00	31.69	6
		MOTA	1084	CB	HIS	A	405	44.540	24.228	40.694	1.00	33.75	6
	45	MOTA	1085	CG	HIS	A	405	45.292	24.657	41.908	1.00	34.75	6
		ATOM	1086	CD2	HIS	Α	405	46.198	25.640	42.130	1.00	34.58	6
		ATOM	1087	ND1	HIS	Α	405	45.161	23.984	43.130	1.00	32.43	7
		ATOM	1088	CE1	HIS	Α	405	45.975	24.568	44.018	1.00	36.15	6
		ATOM	1089	NE2	HIS	Α	405	46.601	25.561	43.430	1.00	39.84	7
	50	ATOM	1090	С	HIS	A	405	44.274	24.445	38.225	1.00	34.21	6
		ATOM	1091	0	HIS			45.029	23.949	37.386	1.00	37.06	8
		ATOM	1092	N	TYR			42.947	24.453	38.100		30.83	7
		ATOM	1093	CA	TYR			42.313	23.859	36.930		28.85	6
		ATOM	1094	СВ	TYR			40.805	24.080	36.934		31.48	6
	55	ATOM	1095	CG	TYR			40.139	23.494	35.709		23.49	6
		ATOM	1096					40.073	22.123	35.532		19.42	6
		ATOM	1097		TYR			39.517	21.577	34.382		23.80	6
		ATOM	1098		TYR			39.646	24.313	34.704		21.81	6
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	5	ATOM	1099	CE2	TYR	A	406	39.090	23.769	33.551	1.00	24.64	6
		ATOM	1100	CZ	TYR	A	406	39.029	22.395	33.380	1.00	21.56	6
		ATOM	1101	ОН	TYR	А	406	38.489	21.850	32.236	1.00	24.96	8
		ATOM	1102	С	TYR			42.882	24.504	35.672		24.24	6
		ATOM	1103	ō	TYR			42.958	23.872	34.621		27.08	8
	10	ATOM	1104	N	ILE			43.253	25.784	35.807		25.76	7
	10												6
		MOTA	1105	ÇA	ILE			43.824	26.548	34.705		33.75	
		ATOM	1106	CB	ILE			43.986	28.033	35.070		34.23	6
		ATOM	1107	CG2	ILE			44.967	28.712	34.139		32,46	6
	_	ATOM	1108	CG1	ILE			42.615	28.728	35.042		43.30	6
	15	MOTA	1109	CD1	ILE			41.896	28.602	33.694	1.00	40.40	б
		MOTA	1110	С	ILE			45.143	25.973	34.256	1.00	39.03	6
		MOTA	1111	0	ILE	A	407	45.383	25.771	33.063	1.00	35.18	8
		ATOM	1112	N	ASN	A	408	46.003	25.721	35.227	1.00	37.25	7
		ATOM	1113	CA	ASN	A	408	47.307	25.194	34.926	1.00	37.01	6
	20	ATOM	1114	СВ	ASN	A	408	48.107	25.017	36.213	1.00	32.27	6
	_	ATOM	1115	CG	ASN			48.346	26.362	36.936		33.56	6
		ATOM	1116	OD1				48.827	27.335	36.320		31.99	8
		ATOM	1117	ND2				48.038	26.403	38.231		31.23	7
1-3		ATOM	1118	C	ASN			47.205	23.892	34.136		38.14	6
	25	ATOM	1119	0	ASN			47.203	23.734	33.124		42.16	8
ľŪ	23												7
ij		ATOM	1120	N	TYR			46.334	22.981	34.568		35.62	
14		MOŢA	1121	CA	TYR			46.159	21.710	33.866		35.91	. 6
, ef		MOTA	1122	CB	TYR			45.051	20.859	34.507		34.41	6
		MOTA	1123	CG	TYR			44.624	19.687	33.619		38.73	б
, "] [•	30	ATOM	1124	CD1	TYR			45.563	18.765	33.155		41.34	6
		MOTA	1125	CE1	TYR	A	409	45.186	17.709	32.321	1.00	47.16	6
e: grave		ATOM	1126	CD2	TYR	Α	409	43.292	19.515	33.232	1.00	46.20	6
		ATOM	1127	CE2	TYR	A	409	42.913	18.455	32.397	1.00	50.74	6
لَدا		MOTA	1128	CZ	TYR	Α	409	43.863	17.551	31.946	1.00	50.88	6
u S	35	ATOM	1129	ОН	TYR	A	409	43.498	16.514	31.130	1.00	53.14	8
		ATOM	1130	С	TYR			45.760	21.966	32.424	1.00	38.16	6
Ď		ATOM	1131	0	TYR			46.202	21.281	31.502		41.83	8
١Đ		ATOM	1132	N	ARG			44.872	22.943	32.272		42.25	7
		ATOM	1133	CA	ARG			44.345	23.332	30.984		42.83	6
	40	ATOM	1134	СВ	ARG			43.311	24.427	31.195		36.83	6
	40	ATOM	1135	CG	ARG			41.994	23.979	31.795		34.32	6
		ATOM	1136	CD	ARG			41.073	23.504	30.675		36.62	6
		ATOM	1137	NE	ARG			40.888	24.550	29.685		38.64	7
	4.5	ATOM	1138	CZ	ARG			40.177	24.397	28.576		35.73	6
	45	ATOM	1139		ARG			39.572	23.230	28.348		33.17	7
		ATOM	1140		ARG			40.077	25.407	27.708		32.70	7
		MOTA	1141	С	ARG			45.442	23.850	30.083		46.67	6
		MOTA	1142	0	ARG	Α	410	45.467	23.591	28.882	1.00	41.78	8
		MOTA	1143	N	LYS .	A	411	46.360	24.577	30.710	1.00	52.99	7
	50	ATOM	1144	CA	LYS .	A	411	47.467	25.194	30.017	1.00	58.32	6
		ATOM	1145	СВ	LYS .	A	411	48.645	24.216	29.876	1.00	64.99	6
		ATOM	1146	CG	LYS			48.349	22.835	29.367		70.48	6
		ATOM	1147	CD	LYS			49.608	21.974	29,494		77.18	6
		ATOM	1148	CE	LYS			49.461	20.621	28.795		84.30	6
	55	ATOM	1149	NZ	LYS			50.740	19.828	28.857		86.48	7
		ATOM	1150	C	LYS			47.032	25.756	28.686		56.66	6
		ATOM	1151	0	LYS			47.160	25.750	27.633		55.47	8
		ATOM	1152	N	HIS .			46.458	26.943	28.823		54.67	7
		AT ON	1136	F4	nio '	~	716	40.930	20.943	20.023	1.00	J7.0/	,

	5	ATOM	1153	ÇA	HIS	A	412	45.984	27.722	27.705	1.00	48.67	6
		ATOM	1154	CB	HIS	A	412	45.124	28.884	28.201	1.00	43,14	б
		MOTA	1155	CG	HIS	A	412	43.812	28,480	28.755	1.00	41.36	6
		ATOM	1156	CD2	HIS	A	412	43.429	28.064	29.987	1.00	35.44	6
		ATOM	1157	ND1	HIS	A	412 .	42.651	28.440	27.966	1.00	38.19	7
	10	MOTA	1158	CE1	HIS	A	412	41.648	28.014	28.723	1.00	34.75	6
		ATOM	1159	NE2	HIS	A	412	42.094	27.780	29.942	1.00	35.52	7
		MOTA	1160	С	HIS	A	412	47.231	28.303	27.101	1.00	46.35	6
		MOTA	1161	0	HIS	A	412	48.269	28.452	27.775	1,00	42.73	8
		MOTA	1162	N	HIS	A	413	47.116	28.696	25.839	1.00	48.92	7
	15	MOTA	1163	CA	HIS	A	413	48.234	29.290	25.146	1,00	53.15	6
		MOTA	1164	CB	HIS	A	413	48,404	28.666	23.755	1,00	55.27	6
		MOTA	1165	ÇG	ИIS	A	413	49.326	29.446	22.886	1.00	58.77	6
		MOTA	1166	CD2	HIS	A	413	49.213	30.660	22.304	1.00	61.65	6
		ATOM	1167	ND1	HIS	A	413	50.617	28.997	22.564	1.00	60.31	7
	20	ATOM	1168	CE1	HIS	A	413	51.214	29.924	21.828	1.00	63.01	6
		MOTA	1169	NE2	HIS	Α	413	50.386	30.941	21.658	1.00	62.93	7
		ATOM	1170	С	HIS	Α	413	47.932	30.768	24.998	1.00	53.19	6
		MOTA	1171	0	HIS			47.639	31.301	23.934	1,00	54.93	8
(3		ATOM	1172	N	VAL	Α	414	47.964	31,413	26.139	1.00	53.77	7
Ō	25	ATOM	1173	CA	VAL	A	414	47.735	32.811	26.146	1.00	51.06	6
IŪ		ATOM	1174	СВ	VAL	A	414	46.291	33.183	26.417	1.00	51.49	6
Ø		ATOM	1175	CG1	VAL	Α	414	46.186	34.715	26.603	1.00	45.22	6
ᅼ		ATOM	1176	CG2	VAL	Α	414	45.419	32.732	25.263	1.00	52.67	6
Ų		ATOM	1177	С	VAL	Α	414	48.623	33.283	27.226	1.00	54.28	6
j-b	30	ATOM	1178	0	VAL	Α	414	48.427	33.029	28.409	1.00	55.49	8
1		ATOM	1179	N	THR	Α	415	49.706	33.863	26.733	1.00	56.28	7
3!		ATOM	1180	CA	THR	Α	415	50.721	34.484	27.557	1.00	57.83	6
		ATOM	1181	СВ	THR	Α	415	51.268	35,675	26,758	1.00	59.64	6
J.		ATOM	1182	OG1	THR	A	415	51.605	36.754	27.636	1.00	66.69	8
لرا 1	35	ATOM	1183	CG2	THR	Α	415	50.197	36.158	25.745	1,00	59.42	6
. 		MOTA	1184	C	THR	A	415	50.146	35.049	28.879	1.00	56.98	6
ů, Q,		ATOM	1185	0	THR	A	415	48.933	35.146	29.051	1.00	55.70	8
تط		ATOM	1186	N	HIS			51.068	35.330	29.795		57.44	7
		ATOM	1187	CA	HIS			50.808	36.011	31.047		57.34	6
	40	ATOM	1188	CB	HIS	A	416	51.346	37.422	30.708		61.35	6
		MOTA	1189	CG				51.872	38.237			69.78	6
		ATOM	1190		HIS			53.114	38.297			71.42	6
		ATOM	1191		HIS			51.135	39.263			72.49	7
		ATOM	1192		HIS			51.914	39.884	33.290		75.50	6
	45	ATOM	1193		HIS			53.099	39.323	33.291		73.91	7
		ATOM	1194	С	HIS			49.261	35.892	31.297		53.79	6
		ATOM	1195	0	HIS			48.499	36.779	30.902		52.81	8
		ATOM	1196	N	PHE			48.806	34.779	31.911		48.05	7
		MOTA	1197	CA	PHE			47.355	34.428	32.061		47.99	6
	50	MOTA	1198	CB	PHE			47.165	32.954	31.996		46.11	6
		MOTA	1199	CG	PHE			45.835	32.590	31.399		44.27	6
		ATOM	1200		PHE			45.680	32.720	30.046		41.79	6
		ATOM	1201		PHE			44.758	32.135	32.164		40.23	6
	c e	ATOM	1202		PHE			44.498	32.397	29.422		44.30	6
	55	ATOM	1203		PHE			43.540	31.802	31.529		36.80	6
		ATOM	1204	CZ	PHE			43.427	31.928	30.144		40.69	6
		ATOM	1205	C	PHE			46.427	34.836	33.196		46.69	6
		ATOM	1206	0	PHE	A	417	46.147	36.004	33.331	1.00	43.35	8

	5	ATOM	1207	N	TRP	A	418	45.906	33.801	33.909	1.00	45.14	7
		ATOM	1208	CA	TRP	A	418	44.982	33.867	35.065	1.00	44.89	6
		ATOM	1209	CB	TRP	A	4.18	45.545	33.099	36.255	1.00	42.24	6
		ATOM	1210	CG	TRP	A	418	44.959	33.452	37.598	1.00	47.11	6
		MOTA	1211	CD2	TRP	A	418	43.724	32.924	38.149	1.00	46.98	6
	10	ATOM	1212	CE2			418	43.534	33.565	39.413		48.94	6
		ATOM	1213	CE3			418	42.777	31.986	37.688		45.23	6
		ATOM	1214	CD1			418	45.434	34.350	38.512		46.24	6
		ATOM	1215	NE1			418	44.588	34.407	39.608		50.63	7
		ATOM	1216	CZ2			418	42.441	33.270	40.238		45.46	6
	15	ATOM	1217	CZ3			418	41.686	31.706	38.500		44.50	6
		ATOM	1218	CH2			418	41.511	32.335	39.753		47.55	6
		ATOM	1219	C			418	44.908	35.324	35.398		43.88	6
		ATOM	1220	0			418	43.797	35.839	35,702		43.17	8
		ATOM	1221	N			419	46.084	35.976	35.461		43.55	7
	20	ATOM	1222	CD			419	47.467	35.482	35.400		41.52	6
	20	ATOM	1223	CA			419	46.009	37.396	35.758		41.48	6
		ATOM	1223	CB			419	47.436	37.884	35.535		39.21	6
		ATOM	1225	CG			419	48.261	36.696	35.223		39.25	6
1-3	•		1225				419	44.960	38.090			36.28	6
	25	ATOM	1227	C				44.208	38.978	34.817		37.08	8
IJ.	2.5	ATOM		0			419	44.208		35.237			7
ĺΩ		ATOM	1228	N			420		37.701	33.540		35.96	
		ATOM	1229	CA			420	43.977	38.287	32.575		40.82	6
		ATOM	1230	CB			420	44.314	37.805	31.155		40.78	6
	20	ATOM	1231	CG			420	45.684	38.244	30.641		48.62	6
164	30	ATOM	1232	CD			420	45.904	37.781	29.206		55.12	6
ěi .		ATOM	1233	CE			420	47.248	38.261	28.673		53.26	6
		ATOM	1234	NZ			420	47.448	37.884	27.222		52.69	7
L.J		ATOM	1235	C			420	42.580	37.832	32.948		40.29	6
	3.5	ATOM	1236	0	LYS			41.656	38.626	32.982		39.66	8
	35	ATOM	1237	N	LEU			42.461	36.537	33.245		38.33	7
Ū		ATOM	1238	CA	LEU			41.186	35.931	33.613		37.60	6
١Ū		ATOM	1239	СВ	LEU			41.397	34.433	33.915		43.66	6
		ATOM	1240	CG	LEU			40.204	33.518	33.828		46.50	6
	4.0	ATOM	1241	CD1	LEU			39.643	33.624	32.426		45.15	6
	40	ATOM	1242		LEU			40.595	32.094	34.131		51.31	6
		ATOM	1243	С	LEU			40.575	36.664	34.808		39.59	6
		MOTA	1244	0	LEU			39.371	36.910	34.837		40.66	8
		ATOM	1245	N	LEU			41.412	37.017	35.782		39.57	7
		ATOM	1246	CA	LEU			40.946	37.726	36.961		38.63	6
	45	MOTA	1247	CB	LEU			42.085	37.890	37.971		41.79	6
		ATOM	1248	CG	LEU			42.424	36.671	38,798		42.74	6
		ATOM	1249	CD1	LEU	A	422	43.490	37.010	39.820	1.00	42.89	6
		ATOM	1250	CD2	LEU	A	422	41.168	36.216	39.523	1.00	39.27	6
		MOTA	1251	С	LEU	A	422	40.381	39.073	36.589	1.00	40.47	6
	50	ATOM	1252	0	LEU	Α	422	39.428	39.525	37.210	1.00	47.83	8
		MOTA	1253	N	MET	A	423	40.969	39.698	35.569	1.00	34.27	7
		MOTA	1254	CA	MET	Α	423	40.511	41.001	35.117	1.00	35.25	6
		ATOM	1255	СВ	MET	A	423	41.427	41.553	34.028	1.00	32.56	6
		ATOM	1256	CG	MET	A	423	42.856	41.732	34.456	1.00	40.70	6
	55	ATOM	1257	SD	MET	A	423	43.707	43.101	33.619	1.00	47.65	16
		ATOM	1258	CE	MET			43.348	42.776	31.848		47.16	6
		ATOM	1259	С	MET			39.100	40.899	34.574		35.13	6
		ATOM	1260	0	MET			38.315	41.829	34.696		29.85	8

	5	MOTA	1261	N	LYS	A.	424	38.791	39.752	33.975	1.00	31.56	7
		ATOM	1262	ÇA	LYS	A	424	37.470	39.529	33.423	1.00	32.29	б
		ATOM	1263	CB	LYS	A	424	37.446	38.205	32.658	1.00	30.56	6
		ATOM	1264	CG	LYS	Α	424	38.394	38.192	31.455	1.00	30.07	6
		ATOM	1265	CD	LYS	A	424	38.050	39.326	30.488	1.00	33.22	6
	10	MOTA	1266	CE	LYS	A	424	39.032	39.433	29.322	1.00	28.75	6
		ATOM	1267	NZ	LYS	Α	424	40.394	39.942	29.707	1.00	31.01	7
		ATOM	1268	C	LYS	A	424	36.418	39.558	34.524	1.00	29.26	6
		ATOM	1269	0	LYS	A	424	35.307	39.998	34.289	1.00	30.22	8
		MOŢA	1270	N	VAL	Α	425	36.796	39.098	35.719	1.00	23.53	7
	15	ATOM	1271	CA	VAL	Α	425	35.897	39.107	36.866	1.00	28.91	6
		ATOM	1272	CB	VAL	A	425	36.541	38.460	38.094	1.00	29.44	6
		ATOM	1273	CG1	VAĻ	A	425	35.673	38.642	39.320	1.00	28.81	6
		MOTA	1274	CG2	VAL	A	425	36.764	36.985	37.849	1.00	31.22	6
		ATOM	1275	С	VAL	A	425	35.512	40.548	37.161	1.00	32.03	6
	20	ATOM	1276	0	VAL	A	425	34,350	40.839	37.429	1.00	31.95	8
		ATOM	1277	N	THR	A	426	36.496	41.444	37.124	1.00	33.61	7
		ATOM	1278	CA	THR	Α	426	36.248	42.866	37.356	1.00	30.76	6
		ATOM	1279	CB	THR	Α	426	37.559	43.670	37.360	1.00	32.34	6
		ATOM	1280	OG1	THR	Α	426	38.209	43.565	38.630	1.00	33.07	8
Ď	25	ATOM	1281	CG2	THR	A	426	37.302	45.131	37.015	1.00	25.40	6
ľŰ		ATOM	1282	С	THR	Α	426	35.363	43.324	36.211	1.00	32.53	6
(X)		ATOM	1283	0	THR	Α	426	34.357	44.006	36.405	1.00	35.19	8
4		ATOM	1284	N	ASP	Α	427	35.763	42.929	35.006	1.00	28.83	7
1		ATOM	1285	CA	ASP	Α	427	35.011	43.272	33.810	1.00	35.12	6
4	30	ATOM	1286	СВ	ASP	A	427	35,556	42.524	32.578	1.00	39.14	6
1		ATOM	1287	CG	ASP	Α	427	36.837	43.103	32,057	1.00	45.80	Ģ
31: 1555		ATOM	1288	OD1	ASP	Α	427	36.982	44.346	32.024	1.00	41.97	8
		MOTA	1289	OD2	ASP	Α	427	37.735	42.333	31.616	1.00	50.06	8
لدا		ATOM	1290	С	ASP	Α	427	33.537	42.925	34.028	1.00	33.94	6
لِيا	35	ATOM	1291	0	ASP	Α	427	32.659	43.712	33.702	1.00	38.02	8
		ATOM	1292	N	LEU	Α	428	33.283	41.745	34.584	1.00	27.15	• 7
ים טי		MOTA	1293	CA	LEU	A	428	31.925	41.293	34.850	1.00	29.99	6
i ind		ATOM	1294	CB	LEU	A	428	31.924	39.786	35.133	1.00	22.49	6
		ATOM	1295	CG	LEU	A	428	32.104	38.873	33.939	1.00	25.54	6
	40	ATOM	1296	CD1	LEU	A	428	32.202	37.421	34.353	1.00	20.60	6
		ATOM	1297	CD2	LEU	A	428	30.920	39.083	33.029	1.00	17.24	6
		ATOM	1298	C .	LEU	A	428	31.276	42.057	35.991	1.00	28.94	6
		ATOM	1299	0	LEU	Α	428	30.082	42.306	35.939	1.00	31.26	8
		MOTA	1300	N	ARG	Α	429	32.059	42.423	37.011	1.00	27.64	7
	45	ATOM	1301	CA	ARG			31.527	43.162	38.147		28.13	6
		ATOM	1302	CB	ARG	A	429	32.564	43.298	39.264		29.59	6
		ATOM	1303	CG	ARG	Α	429	32.818	42.040	40.080	1.00	34.85	6
		ATOM	1304	CD	ARG			33.588	42.360	41.367		47.18	6
		ATOM	1305	NE	ARG	Α	429	34.093	41.175	42.049	1.00	57.93	7
	50	ATOM	1306	CZ	ARG	A	429	33.327	40.210	42.547	1.00	63.62	6
		ATOM	1307	NH1	ARG	Α	429	31.998	40.270	42.396	1.00	60.71	7
		ATOM	1308	NH2	ARG	A	429	33.900	39.165	43.150	1.00	62.38	7
		ATOM	1309	Ċ	ARG	A	429	31.099	44.536	37.707	1.00	29.81	6
		ATOM	1310	0	ARG			30.044	45.009	38.101	1.00	30.81	8
	55	MOTA	1311	N	MET			31.941	45.176	36.901		29.64	7
		ATOM	1312	CA	MET			31.644	46.502	36.383		34.72	6
		ATOM	1313	СВ	MET			32.745	46.955	35.434		34.97	6
		ATOM.	1314	CG	MET	A	430	33.937	47.597	36.080	1.00	45.34	6
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	5	ATOM	1315	SD	MET	A	430	33.520	49.120	36.937	1.00	52.55	16
		ATOM	1316	CE	MET	A	430	32.942	50.174	35.585	1.00	55.56	6
		ATOM	1317	С	MET	A	430	30.315	46.455	35.634	1.00	34,01	6
		ATOM	1318	0	MET			29.455	47.295	35.854	1.00	37.29	8
		ATOM	1319	N	ILE			30.180	45.468	34.740		29.99	7
	10	ATOM	1320	CA	ILE			28.954	45.269	33.969		28.82	6
	10	MOTA	1321	CB	ILE			28.962	43.936	33.211		27.39	6
					ILE			27.622	43.671	32.572		23.87	6
		ATOM	1322	CG2				30.044	43.920			25.56	6
		MOTA	1323	CG1	ILE					32.138			
		ATOM	1324	CD1	ILE			29.989	42.703	31.244		17.29	6
	15	ATOM	1325	С			431	27.769	45.269	34.907		29.49	6
		ATOM	1326	0			431	26.810	45.993	34.712		24.19	8
		ATOM	1327	N	GLY	A	432	27.839	44.435	35.936		25.25	7
		ATOM	1328	CA	GLY	A	432	26.748	44.343	36.890	1.00	30.38	6
		ATOM	1329	С	GLY	A	432	26.494	45.671	37.554	1.00	32,75	6
	20	ATOM	1330	0	GLY	Α	432	25.411	46.206	37.469	1.00	36.38	8
		ATOM	1331	N	ALA	Α	433	27.514	46.189	38.221	1.00	26,77	7
		ATOM	1332	CA	ALA			27.428	47.459	38.910		26.48	6
		ATOM	1333	СВ	ALA			28.836	47.970	39.203	1.00	19.90	6
		ATOM	1334	C	ALA			26.663	48.502	38.114		30.73	6
Ď	25	ATOM	1335	0 '	ALA			25.773	49.164	38.635		31.60	8
ĪŪ	23	ATOM	1336	N	CYS			27.027	48.654	36.854		33.22	7
Ü			1337		CYS			26.371	49.616	35.996		34.34	6
į		ATOM		CA									
		ATOM	1338	СВ	CYS			27.047	49.612	34.711		35.20	6
j		ATOM	1339	SG	CYS			27.789	50.811	34.285		54.48	16
ال	30	ATOM	1340	С	CYS			24.974	49.198	35.612		34.09	. 6
Ei		ATOM	1341	0	CYS			24.107	50.040	35.415		34.89	8
ij		MOTA	1342	N	HIS			24.756	47.898	35.447		34.30	7
لَيا		ATOM	1343	CA	HIS	A	435	23.453	47.423	35.042		35.44	6
1.1		ATOM	1344	CB	HIS	A	435	23.404	45.904	35.104	1.00	31.76	6
	35	ATOM	1345	CG	HIS	A	435	22.099	45.351	34.675	1.00	32.03	6
Ō		ATOM	1346	CD2	HIS	A	435	21.697	44.790	33.519	1.00	28.61	6
Ď		ATOM	1347	ND1	HIS	Α	435	20.941	45.482	35.452	1.00	28.48	7
" degr		ATOM	1348	CE1	HIS	A	435	19.912	45.025	34.759	1.00	33.27	6
		MOTA	1349		HIS			20.345	44.597	33.583	1.00	31.57	7
	40	ATOM	1350	С	HIS			22.400	47.974	35.972		32.74	6
		ATOM	1351	ō	HIS			21.304	48.284	35.565		32.87	8
		ATOM	1352	N	ALA			22.777	48.046	37.241		31.01	7
		ATOM	1353	CA	ALA			21.910	48.563	38.266		29.91	6
			1354	CB	ALA			22.661	48.595	39.580		21.23	6
	45	ATOM											
	43	ATOM	1355	С	ALA			21.475	49.969	37.884		33.86	6
		ATOM	1356	0	ALA			20.296	50.298	37.910		36.10	8
		MOTA	1357	N	SER			22.453	50.795	37.532		35.19	7
		MOTA	1358	CA	SER			22.172	52.167	37.140		33.03	6
		MOTA	1359	CB	SER			23.441	52.815	36.603		35.31	6
	50	MOTA	1360	OG	SER	A	437	23.203	54,151	36.193	1.00	44.99	8
		ATOM	1361	С	SER	Α	437	21.110	52.158	36.055	1.00	38.39	6
		ATOM	1362	0	SER	A	437	20.049	52.745	36.204	1.00	37.54	8
		ATOM	1363	N	ARG	A	438	21.432	51.483	34.956	1.00	37.32	7
		ATOM	1364	CA	ARG			20.534	51.379	33.821		39.30	6
	55	ATOM	1365	СВ	ARG			21.114	50.402	32.786		42.97	6
		ATOM	1366	CG	ARG			22.343	50.911	32.051		41.72	6
		ATOM	1367	CD	ARG			21.955	52.134	31.251		45.23	6
		ATOM	1368	NE	ARG			20.964	51.839	30.237		45.66	7
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	5	ATOM	1369	CZ	ARG	Α	438	20.063	52.718	29.809	1.00	49.71	6
		ATOM	1370	NH1	ARG	A	438	20.046	53.958	30.318	1.00	50.91	7
		ATOM	1371	NH2	ARG	A	438	19.198	52.354	28.865	1.00	46.86	7
		ATOM	1372	С	ARG	Α	438	19.147	50.922	34.240	1.00	42.37	6
		MOTA	1373	0	ARG	Α	438	18.147	51.297	33.625	1.00	40.58	8
	10	ATOM	1374	N	PHE	Α	439	19.080	50.120	35.298	1.00	42.25	7
		ATOM	1375	CA	PHE	Α	439	17.803	49.624	35.763	1.00	42.81	6
		ATOM	1376	СВ	PHE			17.975	48.794	37.013	1.00	42.18	6
		ATOM	1377	CG	PHE			16.739	48.053	37.413	1.00	42.48	6
		ATOM	1378	CD1				16.198	47.111	36.562	1.00	47.09	6
	15	ATOM	1379	CD2	PHE			16.105	48.320	38.613	1.00	39.76	. 6
		ATOM	1380	CE1	PHE	Α	439	15.047	46.427	36.905	1.00	49.17	6
		ATOM	1381	CE2	PHE			14.940	47.630	38.963	1.00	45.10	6
		ATOM	1382	CZ	PHE			14.411	46.683	38.098		46.36	6
		ATOM	1383	С	PHE			16.921	50.803	36.075		44.79	6
	20	ATOM	1384	0	PHE			15.830	50.903	35.554		40.26	8
		ATOM	1385	N	LEU			17.410	51.681	36.951		42.77	7
		ATOM	1386	CA	LEU			16.660	52.871	37.344		42.96	6
	•	ATOM	1387	СВ	LEU			17.546	53.824	38.150		37.19	6
		ATOM	1388	CG	LEU			17.943	53.297	39.500		36.97	6
Ō	25	ATOM	1389		LEU			18.620	54.389	40.316		33.65	6
ĪŪ		ATOM	1390		LEU			16.679	52.837	40.216		35.42	6
Ü		ATOM	1391	C	LEU			16.025	53.596	36.168		45.47	6
		ATOM	1392	ō	LEU			14.809	53.750	36.126		52.48	8
1		ATOM	1393	N	HIS			16.836	54.060	35.223		49.15	7
æ	30	ATOM	1394	CA	HIS			16.277	54.725	34.063		54.76	6
		ATOM	1395	СВ	HIS			17.329	54.955	33.031		56.68	6
f!		ATOM	1396	CG	HIS			18.134	56.161	33.282		62.73	6
		ATOM	1397	CD2	HIS			18.468	57.216	32.499		65.73	6
IJ		ATOM	1398	ND1	HIS			18.701	56.431	34.538		66.01	7
	35	ATOM	1399		HIS			19.332	57.594	34.473		65.55	6
		ATOM	1400		HIS			19.205	58.085	33.255		60.09	7
Ü		ATOM	1401	C	HIS			15.244	53.822	33.481		55.93	6
ıD		ATOM	1402	Ō	HIS			14.149	54.263	33.170	1.00		8
		ATOM	1403	N	MET			15.605	52.549	33.313		57.81	7
	40	ATOM	1404	CA	MET			14.661	51.583	32.778	1.00		6
		ATOM	1405	СВ	MET			15.191	50.154	32.922		55.93	6
		ATOM	1406	CG	MET			16.336	49.813	32.022		58.52	6
		ATOM	1407	SD	MET			16.681	48.008	31.851		60.99	16
		ATOM	1408	CE	MET			17.085	47.602	33.581		52.61	6
	45	ATOM		·C	MET			13.339	51.727	33.534		60.31	6
	-	ATOM	1410	0	MET			12.266	51.560	32.968		58.18	8
		ATOM	1411	N	LYS			13.425	52.054	34.818		61.45	7
		ATOM	1412	CA	LYS			12.236	52.202	35.626		64.90	6
		ATOM	1413	СВ	LYS			12.608	52.141	37.090		64.40	6
	50	ATOM	1414	CG	LYS			11.461	51.748	37.959		69.12	6
		ATOM	1415	CD	LYS			12.068	51.551	39.257		71.14	6
		ATOM	1416	CE	LYS			11.368	51.897	40.091		73.43	6
		ATOM	1417	NZ	LYS			11.883	51.712	41.415		67.97	7
		ATOM	1418	C	LYS			11.513	53.514	35.348		67.29	6
	55	ATOM	1419	Ö	LYS			10.390	53.700	35.780		67.90	8
		ATOM	1420	N	VAL-			12.171	54.429	34.629		66.57	7
		ATOM	1421	CA	VAL			11.575	55.719	34.297		64.76	6
		ATOM	1422	СВ	VAL			12.569	56.869	34.560		62.76	6
								, _ , _ ,					-

	5	ATOM	1423	CG1	VAL	A	444	11.952	58.195	34.174	1,00	64.00	6
		MOTA	1424	CG2	VAL	A	444	12.999	56.891	36.035	1.00	59.27	6
		ATOM	1425	С	VAL	A	444	11.043	55.730	32.861	1.00	68.61	6
		ATOM	1426	0	VAL	A	444	9.937	56.210	32.612	1.00	70.60	8
		ATOM	1427	N	GLU	A	445	11.814	55.173	31.935	1.00	70.71	7
	10	ATOM	1428	CA			445	11.457	55.152	30.514		71.45	6
		ATOM	1429	СВ			445	12.725	55.255	29.664		72.36	6
		ATOM	1430	CG			445	13.598	56.429	30.022		40.00	6
		ATOM	1431	CD			445	14.875	56.472	29.239		40.00	6
		ATOM	1432	OE1			445	15.155	55.565	28.414		40.00	8
	15	ATOM	1433	OE2			445	15.663	57.430	29.430		40.00	8
	13	ATOM	1434	C			445	10.724	53.912	30.049		71.46	6
		ATOM	1435	0			445	10.536	53.701	28.844		73.02	8
		ATOM	1436	И			446	10.330	53.701	30.999		71.12	7
		ATOM	1437				446	9.628	51.899	30.634		70.83	6.
	20			CA			446	10.595	50.719	30.687		71.05	6
	20	ATOM	1438	CB									
		ATOM	1439	SG			446	12.009	50.842	29.573		72.83	16
		ATOM	1440	C			446	8.454	51.671	31.535		71.91	6
J 8855		ATOM	1441	0			446	8.495	52.014	32.728	•	72.06	8
	25	ATOM	1442	N			447	7.372	51.133	30.978		73.12	7
Q, VI	25	ATOM	1443	CD			447	7.267	50.764	29.560		72,88	6
C)		ATOM	1444	CA			447	6.150	50.853	31.740		74.22	6
14		ATOM	1445	CB			447	5.187	50.281	30.714		72.98	6
, ef		ATOM	1446	CG			447	5.875	50.271	29.437		74.77	6
4		ATOM	1447	С			447	6.435	49.843	32.831		75.94	6
N	30	ATOM	1448	0			447	7.181	48.908	32.612		76.67	8
31		ATOM	1449	N			448	5.820	50.002	33.997		76.91	7
٦		ATOM	1450	CA			448	6.024	49.066	35.113		78.24	6
لبا		MOTA	1451	CB			448	5.528	49.734	36.401		81.33	6
		ATOM	1452	OG1			448	4.105	49.917	36.328		84.46	8
	35	MOTA	1453	CG2			448	6.192	51.081	36.585		83.51	6
Ď		ATOM	1454	С			448	5.113	47.912	34.755		77.42	6
ū		ATOM	1455	0			448	4.915	46.995	35.519	1.00	77.65	8
		ATOM	1456	N	GLU	A	449	4.539	48.021	33.565		76.29	7
		ATOM	1457	CA	GLU	Α	449	3.630	47.023	33.024	1.00	75.03	6
	40	MOTA	1458	CB	GLU	Α	449	2.600	47.773	32.191	1.00	74.62	6
		ATOM	1459	CG	GLU	A	449	2.145	47.051	31.001	1.00	40.00	б
		MOTA	1460	CD	GLU	A	449	1.297	47.889	30.178	1.00	40.00	6
		ATOM	1461	OE1	GLU	A	449	1.479	49.137	30.146	1.00	40.00	8
		MOTA	1462	QE2	GLU	Α	449	0.424	47.322	29.497	1.00	40,00	8
	45	ATOM	1463	C	GLU	A	449	4.434	46.036	32.179	1.00	73.49	6
		MOTA	1464	0	GLU	A	449	3.882	45.142	31.559	1.00	70.24	8
		ATOM	1465	N	LEU			5.747	46.224	32.161	1.00	70.80	7
		ATOM	1466	CA	LEU			6.608	45.347	31.378		68.82	6
		ATOM	1467	СВ	LEU			7.301	46.154	30.277		71.91	6
	50	ATOM	1468	CG	LEU			6.464	46.819	29.217		76.62	6
		ATOM	1469		LEU			7.337	47.662	28.328		77.95	6
		ATOM	1470		LEU			5.786	45.750	28.415		76.46	6
		ATOM	1471	C	LEU			7.669	44.673	32.243		66.22	6
		ATOM	1472	0	LEU			8.427	43.841	31.752		66.01	8
	55	ATOM	1473	N	PHE			7.705	45.039	33.530		61.96	7
	<i></i>	ATOM	1474	CA	PHE			8.681	44.506	34.480		58.44	6
		ATOM	1475	CB	PHE			9.041	45.562	35.540		61.34	6
		ATOM	1475	CG	PHE			9.873	46.717	35.008		63.02	6
		WI OU	14/0	CG	FILE	~	3 J I	3.0/3	40./1/	33.000	1.00	55.UZ	O

	5	ATOM	1477	CD1	PHE	A	451	9.426	47.507	33.963	1.00	62.92	6
		ATOM	1478	CD2	PHE	A	451	11.089	47.017	35,593	1.00	63.07	6
		ATOM	1479	CE1	PHE	A	451	10.199	48.598	33.521	1.00	65.12	б
		ATOM	1480	CE2	PHE	A	451	11,860	48.102	35.156	1.00	64.66	6
		ATOM	1481	CZ	PHE	A	451	11.410	48.897	34.118	1.00	67.12	6
	10	MOTA	1482	С	PHE	A	451	8.259	43.264	35.260	1.00	56.41	6
		ATOM	1483	0	PHE	A	451	7.641	43.392	36.331	1,00	56.56	8
		MOTA	1484	N	PRO	A	452	8.555	42.045	34.755	1.00	53.28	7
		ATOM	1485	CD	PRO	A	452	9.177	41.689	33,481	1.00	50.46	6
		ATOM	1486	CA			452	8.153	40.859	35.543	1.00	50.26	6
	15	ATOM	1487	CB			452	8.739	39,680	34.780	1.00	49.19	6
		MOTA	1488	CG	PRO	A	452	9.178	40.206	33.482	1.00	45.89	6
		ATOM	1489	С	PRO	A	452	8.770	40.999		1.00	49.62	6
		ATOM	1490	0	PRO	A	452	9.867	41.529	37.094	1.00	52.35	8
		ATOM	1491	N	PRO	A	453	8.139	40.425	37.947	1.00	51.50	7
	20	ATOM	1492	CD			453	7.001	39.542	37.797		49.66	6
		ATOM	1493	CA			453	8.610	40.528	39.323	1.00	50.89	6
		ATOM	1494	CB	PRO	A	453	7.675	39.659	40.109	1.00	51.49	6
		ATOM	1495	CG			453	6.703	39.141	39.185		50.82	6
		ATOM	1496	С			453	10.015	40.084	39.532		50.99	6
ď	25	ATOM	1497	0			453	10.876	40.900	39.838		54.17	8
IJ		ATOM	1498	N	LEU	Α	454	10.255	38.781	39.423	1.00	51.21	7
Ü		ATOM	1499	CA	LEU	Α	454	11.585	38.298	39.674	1.00	47.17	6
4		ATOM	1500	СВ	LEU	Α	454	11.813	36.962	38.975	1.00	44.44	6
		ATOM	1501	CG	LEU	A	454	13.167	36.375	39,289	1.00	41.33	6
<u> </u>	30	ATOM	1502	CD1	LEU	A	454	13.524	36.638	40.720	1.00	35.93	6
14		ATOM	1503	CD2	LEU	A	454	13.169	34.907	38.992	1.00	34.79	6
Si Jenny		ATOM	1504	С	LEU	Α	454	12.541	39.375	39.182	1.00	42.25	6
		ATOM	1505	0	LEU	A	454	13.477	39.718	39.886	1.00	40.82	8
1.1		ATOM	1506	N	PHE	Α	455	12.270	39.957	38.011	1.00	39.29	7
	35	ATOM	1507	CA	PHE	A	455	13.133	41.005	37.473	1.00	41.81	6
Ē		MOTA	1508	CB	PHE	Α	455	12,527	41.592	36.192	1.00	47.22	6
Ū		ATOM	1509	CG	PHE	A	455	13,433	42.565	35.467	1.00	56.97	6
. 225		ATOM	1510	CD1	PHE	A	455	14.715	42.189	35.135	1.00	57.23	6
		ATOM	1511	CD2	PHE	Α	455	12.999	43.840	35.126		59.40	6
	40	ATOM	1512	CEl	PHE	A	455	15.557	43.059	34.466			6
		MOTA	1513	CE2	PHE	Α	455	13.848	44.716	34.452	1.00	61.80	6
		MOTA	1514	CZ	PHE	A	455	15.129		34.126		59.94	6
		ATOM	1515	С	PHE			13.273	42.085	38.534		45.12	6
		MOTA	1516	0	PHE			14.361	42.323	39.034		39.95	8
	45	MOTA	1517	N	LEU			12.155	42.735	38.849		43.92	7
		MOTA	1518	CA	LEU			12.122	43.803	39.840		44.08	6
		ATOM	1519	CB	LEU	A	456	10.680	44.251	40.093		50.20	6
		MOTA	1520	CG	LEU	Α	456	10.062	45.242	39.144	1.00	55.79	6
		ATOM	1521		LEU			8.598	45.432	39.450	1.00	54.70	6
	50	MOTA	1522	CD2	LEU			10.807	46.548	39.295		53.01	6
		ATOM	1523	С	LEU			12.739	43.355	41.136		44.65	6
		MOTA	1524	0	LEU			13.597	44.022	41.685		45.93	8
		MOTA	1.525	N	GLU			11.973	41.761	41.851		44.56	7
		MOTA	1526	CA	GLU			12.475	41.179	43.105		46.37	б
	55	ATOM	1527	С	GLU			14.005	41,236	43.132		43.60	6
		ATOM	1528	0	GLU			14.583	41.724	44.117		42.69	8
		ATOM	1529	СВ	GLU			12.024	39.723	43.223		50.16	6
		ATOM	1530	CG	GLU	A	457	11.114	39.476	44.427	1.00	20.00	6

	5	ATOM	1531	CD	GLU	A	457	10.807	37.994	44.648	1.00	20.00	6
		ATOM	1532	OE1	GLU	A	457	11.673	37.099	44.311	1.00	20.00	8
		MOTA	1533	QE2	GLU	A	457	9.683	37.639	45.172	1.00	20.00	8
		ATOM	1534	N	VAL	A	458	14.928	41.078	41.903	1.00	43.21	7
		ATOM	1535	CA	VAL	A	458	16.412	41.094	41.868	1.00	44.98	6
	10	ATOM	1536	СВ			458	16.881	40.306	40.642		44.83	6
	- •	ATOM	1537	CG1			458	18.365	40.106	40.698		49.72	6
		ATOM	1538	CG2			458	16.185	38.979	40.558		40.89	6
		ATOM	1539	c			458	17.130	42.420	41.877		42.72	6
		ATOM	1540	ō			458	18.061	42.617	42.658		42.88	8
	15	ATOM	1541	N			459	16.713	43.325	41.010		44.53	7
		ATOM	1542	CA			459	17.385	44.606	40.892		49.18	6
		ATOM	1543	ĊВ			459	17.281	45.104	39.494		43.60	6
		ATOM	1544	CG			459	17.915	44.190	38.547		40.79	6
		ATOM	1545	CD1			459	17.325	42.983	38.244		41.01	6
	20	ATOM	1546	CD2	PHE			19.153	44.483	38.054		39.48	6
	20			CE1	PHE							40.62	6
		MOTA	1547					17.988	42.081	37.441			
		ATOM	1548	CE2			459	19.814	43.589	37.257		36.87	6
4000		ATOM	1549	CZ			459	19.233	42.385	36.940		36.39	6
	25	ATOM	1550	C			459	16.837	45.648	41.744		52.71	. 6
ıΩ	25	ATOM	1551	0			459	17.492	46.682	42.017		51.34	8
IJ		ATOM	1552	N	GLU			15.606	45.422	42.161		62.92	7
Ü		ATOM	1553	CA	GLU			15.066	46.428	42.965		69.33	6
14		ATOM	1554	CB	GLU			13.552	46.352	43.094		72.95	6
ju <u>t</u>		ATOM	1555	CG	GLU			12.978	47.767	42.957		78.35	6
,	30	ATOM	1556	CD	GLU			12.246	48.261	44.157		82.97	6
		MOTA	1557		GLU			12.471	47.759	45.281		88.28	8
		MOTA	1558		GLU			11.422	49.200	44.017	1.00	84.80	8
الدا الدا		MOTA	1559	С	GLU			15.736	46.245	44.272		71.87	6
ليرا		ATOM	1560	0	GLU	A	460	16.187	45.170	44.691	1.00	74.51	. 8
	35	ATOM	1561	N	ASP	A	461	15.790	47.373	44.917	1.00	78.50	7
Ü		ATOM	1562	CA	ASP	A	461	16.415	47.505	46.173	1,00	84.19	6
Õ		ATOM	1563	СВ	ASP	A	461	16.394	48.981	46.471	1.00	85.82	6
122		ATOM	1564	CG	ASP	A	461	16.801	49.786	45.276	1.00	89.62	6
		ATOM	1565	OD1	ASP	Α	461	16.692	49.344	44.086	1.00	93.00	8
	40	MOTA	1566	OD2	ASP	A	461	17.239	50.923	45.482	1.00	93.04	8
		ATOM	1567	С	ASP	A	461	15.639	46.703	47.214	1.00	86.80	6
		ATOM	1568	0	ASP	Α	461	16.245	45.748	47.731	1.00	88.70	8
		MOTA	1569	OXT	ASP	Α	461	14.457	47.026	47.451	1.00	88.70	8
		TER											
	45	ATOM	1	СВ	LYS	В	211	-20.802	66.251	39.780	1.00	46.72	6
		ATOM	2	CG	LYS	В	211	-19.566	65.345	39.922	1.00	56.48	6
		ATOM	3	CD	LYS	В	211	-18.264	66.114	40.045	1.00	60.93	6
		ATOM	4	CE	LYS			-18.043	67.067	38.886		61.95	6
		ATOM	. 5	NZ	LYS			-19.008	68.224	38.903		69.93	7
	50	MOTA	6	C	LYS			-22.418	67.861	40.818		35.68	6
		ATOM	7	0	LYS			-23.356	67.113	40.454		33.58	8
		ATOM	8	N	LYS			-20.742	66.675	42.239		45.76	7
		ATOM	9	CA	LYS			-20.998	67.285	40.894		43.42	6
		ATOM	10	N	PRO			-22.610	69.205	41.068		35.64	7
	55	ATOM	11	CD	PRO			-21.526	70.177	41.287		38.60	6
		ATOM	12	CA	PRO			-23.943	69.861	41.036		38.35	6
		ATOM	13	СВ	PRO			-23.657	71.320	41.420		38.95	6
		ATOM	14	CG	PRO			-22.226	71.474	41.551		42.00	6
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	5	ATOM	15	С	PRO	.В	212 '	-24.798	69.772	39.807	1.00	38.78	6
		ATOM	16	0	PRO	В	212	-24.350	70.045	38.696	1.00	34.64	8
		ATOM	17	N	GLU	В	213	-26.058	69,424	40.032	1.00	40.31	7
		ATOM	18	CA	GLU	В	213	-27.081	69.290	39.003	1.00	43.87	6
		ATOM	19	CB	GLU	В	213	-27.895	68.004	39.265	1.00	45.16	б
	10	ATOM	20	CG	GLU	В	213	-27.032	66.709	39,286	1.00	47.60	6
		ATOM	21	CD	GLU	В	213	-27.807	65.421	39.199	1.00	50.68	6
		ATOM	22	OE1	GLU	В	213	-28.847	65.244	39.886	1.00	59.18	8
		ATOM	23		GLU	В	213	-27.382	64.516	38.442	1.00	49,06	8
		ATOM	24	С	GLU		213	-27.924	70.576	39,080		45.96	6
	15	ATOM	25	0	GLU		213	-27.624	71.467	39.859	1.00	43.13	8
		ATOM	26	N	PRO		214	-28.987	70.698	38.308		46.52	7
		ATOM	27	CD	PRO		214	-29.484	69.635	37.446	•	46.44	6
		MOTA	28	CA	PRO		214	-29.843	71.907	38.302		47.52	6
		ATOM	29	СВ	PRO		214	-30.799	71.639	37.210		45.40	6
	20	MOTA	30	CG	PRO		214	-30.530	70.257	36,805		49.89	6
		ATOM	31	C	PRO		214	-30.574	72.330	39.535		45,70	6
		ATOM	32	0	PRO			-30.597	71.595	40.483		44.49	8
		ATOM	33	N	THR		215	-31.180	73.515	39.506		45.24	7
: ==		ATOM	34	CA	THR		215	-31.965	74.036	40.652		49.36	6
	25	MOTA	35	CB			215	-31.443	75.420	41.091		44.86	6
Ü	23	ATOM	36	OG1				-32.249	76.464	40.534		52.26	8
Ü		MOTA	37		THR			-30.011	75.617	40.659		39.43	6
[- <u>-</u>		MOTA	38	C			215	-33.386	74.239	40.114		52.51	6
		ATOM	39	0			215	-33.562	74.868	39.078		53.48	8
	30	ATOM	40	N		В	216	-34.387	73.741	40.829		58.81	7
Ų	50	MOTA	41	CA	ASP	В	216	-35.795	73.865	40.435		61.51	6
ei		ATOM	42	CB			216	-36.674	74.005	41.650		70.57	6
		ATOM	43	CG			216	-37.675	72.981	41.710		78.07	6
IJ		MOTA	44		ASP			-38.228	72.588	40.652		82.31	8
IJ	35	ATOM	45		ASP			-37.983	72.567	42.830		86.55	8
	33	ATOM	46	C	ASP			-35.920	75.123	39.648		58.42	6
١D		ATOM	47	0	ASP			-36.847	75.123	38.827		56.85	8
١Ö		ATOM	48	N	GLU			-34.954	75.979	39.984		54.92	7
		ATOM	49	CA	GLU			-34.851	77.259	39.353		53.37	6
	40		50	CB	GLU			-34.104	78.264	40.251		51.02	6
	40	ATOM			GLU			-34.104	79.689	39.679		40.00	6
		ATOM	51 52	CG CD			217	-34.131	80.745	40.739		40.00	6
		ATOM	53		GLU			-34.089	80.443	41.945		40.00	8
		ATOM	54		GLU			-34.625	81.921	40.411		40.00	8
	45	ATOM	55	CEZ	GLU			-34.023	77.163	37.957		53.55	6
	43	ATOM			GLU			-34.232	77.612	37.018		54.33	8
		ATOM	56	0				-33.063				49.20	7
		ATOM	57	N	GLU				76.572	37.839			6
		ATOM	58	CA	GLU			-32.318	76.385	36.608		45.94	
	50	ATOM	59	CB	GLU			-30.965	75.793	36.981		43.43	6
	50	ATOM	60	CG	GLU			-30,065	76.728	37.801		40.86	6
		ATOM	61	CD	GLU			-28.713	76.159	38.072		39.88	6
		ATOM	62		GLU			-28.606	74.967	38.449		37.61	8
		ATOM	63		GLU			-27.707	76.901	37.945		34.01	8
	<i>E E</i>	ATOM	64	С	GLU			-33.014	75.475	35.610		44.71	6
	55	ATOM	65	0	GLU			-32.935	75.686	34.405		45.31	8
		ATOM	66	N	TRP			-33.669	74.439	36.131		44.02	7
		ATOM	67	CA	TRP			-34.368	73.490	35.290		46.97	6
		ATOM	68	СВ	TRP	B	713	-35.046	72.408	36.119	1.00	48.42	6

	5	ATOM	69	ÇG	TRP	В	219	-34.195	71.230	36.374	1.00	54.61	6
		ATOM	70	CD2	TRP	В	219	-34.048	70.120	35.478	1.00	55.24	ଞ
		ATOM	71	CE2	TRP	В	219	-33.076	69.248	36.063	1.00	53.67	6
		ATOM	72	CE3	TRP	В	219	-34.615	69.771	34.252	1.00	54.55	6
		ATOM	73	CD1	TRP	В	219	-33.399	71.019	37.415	1.00	55.75	б
	10	ATOM	74	NE1	TRP	В	219	-32.697	69.838	37.236	1.00	54.43	7
		ATOM	75	CZZ	TRP	В	219	-32.635	68.075	35.431	1.00	52.54	6
		ATOM	76	CZ3	TRP	В	219	-34.214	68.603	33.643	1.00	55.17	6
		MOTA	77	CH2	TRP	В	219	-33.234	67.758	34.214	1.00	55.59	6
		MOTA	78	С	TRP	В	219	-35.409	74.199	34.459	1.00	47.32	6
	15	ATOM	79	0	TRP	В	219	-35.561	73.914	33.277	1.00	43.56	8
		MOTA	80	N	GLU	В	220	-36.126	75.130	35.084	1.00	49.91	7
		ATOM	81	CA	GLU	В	220	-37.158	75.874	34.402	1.00	53.57	б
		ATOM	82	СВ	GLU	В	220	-37.811	76.820	35.373	1.00	58.18	6
		ATOM	83	CG	GLU	В	220	-39.251	76.812	35.221	1.00	73.13	6
	20	ATOM	84	CD	GLU	В	220	-39.824	76.858	36.489	1.00	80.06	6
		ATOM	85	OE1	GLU	В	220	-39.485	75.995	37.324	1.00	82.12	8
		ATOM	86	OE2	GLU	В	220	-40.635	77.740	36.718	1.00	82.78	8
		ATOM	87	С	GLU	В	220	-36.539	76.645	33.250	1.00	50.51	6
		ATOM	88	0	GLU	В	220	-37.160	76.793	32.195	1.00	49.94	8
Ü	25	ATOM	89	N	LEU			-35.312	77.135	33.455		43.71	7
IJ		ATOM	90	CA	•		221	-34.604	77.884	32.411	1.00	42.81	6
Ü		ATOM	91	СВ			221	-33.214	78.324	32.865		39.21	6
į ±		ATOM	92	CG	LEU			-32.321	78.833	31.754	1.00	36.34	6
, ~ l		ATOM	93	CD1	LEU			-33.073	79.843	30.927		36.93	6
ıd.	30	ATOM	94	CD2	LEU	В	221	-31.058	79.446	32.331	1.00	24.18	6
' Ų		ATOM	95	С	LEU			-34.454	77.011	31.192		43.46	6
ei 		ATOM	96	0	LEU	В	221	-34.819	77.406	30.104	1.00	45.25	8
		ATOM	97	N	ILE	В	222	-33.878	75.829	31.398		39.09	7
IJ		ATOM	98	CA	ILE	В	222	-33.687	74.857	30.330	1.00	35.47	6
	35	ATOM	99	СВ	ILE	В	222	-33.224	73.516	30.871	1.00	33.74	6
: . #4		ATOM	100	CG2	ILE	В	222	-33.204	72.488	29.776	1.00	28.86	6
٥		ATOM	101	CG1	ILE	В	222	-31.840	73.631	31.493	1.00	33.33	6
י⊯י		ATOM	102	CD1	ILE	В	222	-31.435	72.419	32.264	1.00	34.85	6
		ATOM	103	С	ILE	В	222	-34.991	74.627	29.598	1.00	34.26	6
	40	ATOM	104	0	ILE	В	222	-35.082	74.832	28.392	1.00	31.90	8
		ATOM	105	N	LYS	В	223	-35.992	74.183	30.346	1.00	39.49	7
		ATOM	106	CA	LYS	В	223	-37.300	73.892	29.785	1.00	44.43	6
		MOTA	107	CB	LYS	В	223	-38.351	73.876	30.882	1.00	50.81	6
		MOTA	108	CG	LYS	В	223	-39.693	73.358	30.411	1.00	62.51	6
	45	ATOM	109	CD	LYS	В	223	-40.795	73.532	31.449	1.00	72.22	6
		ATOM	110	CE	LYS	В	223	-42.163	73.249	30.827	1.00	74.55	6
		ATOM	111	NZ	LYS	В	223	-43.268	73.378	31.837	1.00	75.78	7
		ATOM	112	С	LYS	В	223	-37.648	74.942	28.755	1.00	42.81	6
		ATOM	113	0	LYS	В	223	-38.337	74.661	27.796	1.00	40.36	8
	50	ATOM	114	N	THR	В	224	-37.146	76.156	28.979	1.00	39.89	7
		ATOM	115	CA	THR	В	224	-37.353	77.293	28.074	1.00	39.93	6
		ATOM	116	CB	THR	В	224	-36.956	78.609	28.776	1.00	40.57	6
		ATOM	117	OG1	THR	В	224	-37.646	78.740	30.028	1.00	39,27	8
		ATOM	118	CG2	THR	В	224	-37.273	79.805	27.893	1.00	38.11	6
	55	ATOM	119	С	THR	В	224	-36.521	77.094	26.789	1.00	39.96	6
		ATOM	120	0	THR	В	224	-37.043	76.677	25.756	1.00	36.67	8
		MOTA	121	N	VAL	В	225	-35.231	77.421	26.888	1.00	38.02	7
		ATOM	122	CA	VAL	В	225	-34.263	77.295	25.801	1.00	38.12	6

	5	ATOM	123	CB	VAL	В	225	-32.869	77.015	26.348	1.00	38.19	6
		ATOM	124	CG1	VAL	В	225	-31.863	76.983	25.226	1.00	36.77	6
		ATOM	125	CG2	VAL	В	225	-32.483	78.050	27.353	1.00	41.76	6
		ATOM	126	С	VAL	В	225	-34.656	76.191	24.843	1.00	37.52	6
		ATOM	127	0	VAL	В	225	-34.621	76.364	23.638	1.00	36.77	8
	10	ATOM	128	N			226	-35.005	75.046	25.410	1.00	34.02	7
		ATOM	129	CA			226	-35.423	73.887	24.638	1.00	34.67	6
		ATOM	130	СВ			226	-35.677	72.707	25.574		30.56	6
		ATOM	131	OG1			226	-34.432	72.225	26.084		32.20	8
		ATOM	132	CG2			226	-36.413	71.595	24.874		20.99	6
	15	ATOM	133	C			226	-36.664	74.170	23.803		36.41	6
		ATOM	134	ō			226	-36.633	74.054	22.578		39.64	8
		ATOM	135	N	ALA			-37.746	74.542	24.480		39.20	7
		ATOM	136	CA	ALA			-39.008	74.861	23.822		36.93	6
		ATOM	137	СВ	ALA			-39.914	75.631	24.785		38.06	6
	20	ATOM	138	C	ALA			-38.686	75.719	22.608		37.69	6
	20	ATOM	139	0	ALA			-39.317	75.616	21.566		40.94	8
		ATOM	140	N	ALA			-37.677	76.572	22.785		32.86	7
		ATOM	141	CA	ALA			-37.216	77.483	21.753		32.48	6
		ATOM	142	CB	ALA			-36.252	78.458	22.358		28.25	6
Ö	25	ATOM	143	C	ALA			-36.545	76.704	20.638		36.12	6
īŪ	23	ATOM	144	0	ALA			-37.078	76.586	19.544		37.86	8
Ø		ATOM	145	N	HIS			-35.364	76.175	20.924		33.58	7
j.L		ATOM	146	CA	HIS			-34.611	75.409	19.956		32.97	6
أبرأ		ATOM	147	CB	HIS			-33.418	74.721	20.597		33.69	6
<u> </u>	30	ATOM	148	CG	HIS			-32.776	73.714	19.715		28.39	6
14	50	ATOM	149	,	HIS			-32.535	72.384	19.863		28.83	6
ŧi.		ATOM	150		HIS			-32.336	74.030	18.426		30.47	7
		ATOM	151		HIS			-31.867	74.030	17.855		26.95	6
ندا		ATOM	152		HIS			-31.976	71.927	18.700		31.27	7
	35	ATOM	153	C	HIS			-35.362	74.352	19.202		38.40	6
	33		154		HIS			-35.069	74.332	18.045		41.49	8
ıΰ		ATOM	155	0	VAL			-36.296	73.688				7
ū		ATOM	156	N	VAL			-37.077	72.634	19.882		38.55	6
		ATOM ATOM	157	CA CB	VAL			-37.744	72.034	19.263 20.310		40.40	6
	40	ATOM	158		VAL			-38.381	70.537	19.637		44.68	6
	40				VAL			-36.742					_
		ATOM ATOM	159 160		VAL			-38.133	71.311 73.130	21.356 18.284		42.18 44.28	6
		ATOM	161	C	VAL			-38.375	72.505	17.248		45.94	6
		ATOM	162	0	ALA			-38.774	74.240	18.623		45.59	8 7
	45	ATOM		N	ALA			-39.820	74.240	17.792		43.39	6
	45		163	CA	ALA								
		ATOM	164	CB	ALA			-40.736 -39.235	75.661	18.647		45.08 48.04	6
		ATOM	165	C					75.636	16.673			6
		ATOM	166	0	ALA			-39.959	76.128	15.816		49.95	8
	50	ATOM	167	N	THR			-37.914	75.773	16.669		47.26	7
	50	ATOM	168	CA	THR			-37.220	76.563	15.654		43.64	6
		ATOM	169	CB	THR			-36.482	77.746	16.315		41.93	6
		ATOM	170	OG1				-35.385	77.270	17.098		39.10	8
		ATOM	171		THR			-37.423	78.523	17.232		29.80	6
	56	ATOM	172	C	THR			-36.194	75.719	14.914		43.97	6
	55	ATOM	173	0	THR			-35.401	76.252	14.155		40.55	8
		ATOM	174	N	ASN			-36.195	74.407	15.157		48.62	7
		ATOM	175	CA	ASN			-35.247	73.511	14.483		58.62	6
		'ATOM	176	СВ	ASN	B	233	-34.621	72.537	15.500	1.00	62.44	6

	5	MOTA	177	CG	ASN	В	233	-33.407	71.812	14.946	1.00	68.35	6
		ATOM	178	OD1	ASN	В	233	-32.569	72.427	14.256	1.00	65.50	8
		ATOM	179	ND2	ASN	В	233	-33.288	70.529	15.265	1.00	74.29	7
		ATOM	180	С	ASN	В	233	-36.033	72.755	13.437	1.00	65.06	6
		ATOM	181	0	ASN	В	233	-36.950	72.005	13.754	1,00	69.47	8
	10	ATOM	182	N	ALA	В	234	-35.674	72.986	12.182	1.00	68.80	7
		ATOM	183	CA	ALA	В	234	-36.352	72.376	11.036		70.98	6
		ATOM	184	СВ	ALA			-35.585	72.701	9.769		71.43	6
		ATOM	185	С	ALA			-36.556	70.880	11.111		73.83	6
		MOTA	186	Ō	ALA			-35.677	70.142	11.501		74.33	8
	15	ATOM	187	N	GLN			-37.754		10.717		75.07	7
		ATOM	188	CA	GLN			-38.149	69.095	10.690		76.32	6
		ATOM	189	CB	GLN			-37.468	68.365	9.533		76.98	6
		ATOM	190		GLN			-38.120	68.540	8.170		77.07	6
		ATOM	191	CD	GLN			-38.572	69.940	7.909		80.85	6
	20	ATOM	192	OE1	GLN			-39.575	70.401	8.491		82.01	8
		ATOM	193	NE2	GLN		235	-37.862	70.620	7.040		78.80	7
		ATOM	194	C	GLN			-37.904	68.331	11.953		77.15	6
		ATOM	195	Ö	GLN			-38.087	67.137	11.947	-	76.06	8
		ATOM	196	N	GLY			-37.511	68.985	13.039		77.46	7
Ü	25	ATOM	197	CA	GLY			-37.304	68.263	14.288		78.37	6
เป	40	ATOM	198	C	GLY			-36.717	66.882	14.217		79.43	6
Ü		MOTA	199	0	GLY			-35.717	66.650	13.542		79.47	8
14		ATOM	200	N	SER			-37.420	66.007	14.943		77.98	7
الم		ATOM	201	CA	SER			-37.117	64.600	15.092		76.49	6
-	30	ATOM	202	CB	SER			-38.118	63.953	16.066		76.49	6
	50	ATOM	202	C	SER			-37.181	63.895	13.737		75.35	6
21		ATOM	203	0	SER			-36.493	62.911	13.737		75.47	8
		ATOM	205	N	HIS			-38.004	64.443	12.845		75.56	7
ليا		ATOM	205		HIS		238	-38.293	63.926	11.519		75.46	· 6
IJ	35	ATOM	207	CA CB			238		64.397			75.85	6
	33		208					-39.663		11.096			6
٠Đ		ATOM	209	C	HIS			-37.369	64.216	10.380		74.10	
ıØ		ATOM ATOM		0	HIS			-37.747	64.135	9.222		75.34	8 7
		ATOM	210 211	N	TRP		239	-36.127	64.427 64.786	10.651		73.39 74.02	6
	40	ATOM	211	CA				-35.345		9.519		81.77	6
	40			CB	TRP			-34.121	65.542	9.934			
		ATOM	213 214	CG	TRP			-33.085	64.786 64.530	10.737		89.67	6
		ATOM ATOM	215		TRP			-31.727 -31.069	63.848	10.302		93.19	6
					TRP					11.393 9.196		95.46 95.35	6
	45	ATOM	216					-30.949					6
	43	ATOM	217		TRP			-33.237	64.180	11.926		94.16	6
		ATOM	218		TRP 1			-32.022	63.631	12.347		97.48	7
		ATOM	219		TRP !			-29.706		11.348		96.23	6
		ATOM	220		TRP 1			-29.613		9.128		96.75	6
	50	ATOM	221		TRP 1			-28.978	63.870	10.215		97.32	6
	50	ATOM	222	С	TRP 1			-34.994	63.722	8.539		70.77	6
		ATOM	223	0	TRP 1			-35.423	63.772	7.388		71.70	8
		ATOM	224	N	LYS I			-34.165	62.791	8.955		67.10	7
		ATOM	225	CA	LYS !			-33.724	61.744	8.077		65.63	6
	55	ATOM	226	СВ	LYS I			-33.321	60.539	8.906		66.65	6
	55	ATOM	227	CG	LYS I			-32.210	60.824	9.905		69.83	6
		ATOM	228	CD	LYS I			-31.759	59.553	10.602		71.49	6
		ATOM	229	CE	LYS I			-30.576	59.843	11.493		71.31	6
		ATOM	230	NZ	LYS I	3	240	-30.106	58.604	12.157	1.00	72.23	7

	5	MOTA	231	С	LYS	B	240	-34.719	61.331	6.996	1.00	66.19	6
		ATOM	232	0	LYS	В	240	-34.321	60.673	6.031	1.00	65.20	8
		ATOM	233	N	ASN			-35.986	61.727	7.139		66.69	7
							241	- •	61.393	6.171		67.53	6
		ATOM	234	CA				-37.031					
	_	ATOM	235	CB			241	-38.240	60.846	6.915		67.98	6
	10	ATOM	236	CG	ASN	В	241	-37.966	59.479	7.544	1.00	70.19	6
		MOTA	237	OD1	ASN	В	241	-37.561	58.526	6.845	1.00	71.37	8
		ATOM	238	ND2	ASN	В	241	-38.205	59,370	8,836	1.00	71.48	7
		ATOM	239	C	ASN			-37.496	62.532	5.255		66.62	6
								•				64.76	8
		ATOM	240	0	ASN			-38.504	62.395	4.578			
	15	ATOM	241	N			242 ⁻	-36.753	63.633	5.209		66.86	7
		MOTA	242	CA	LYS	В	242	-37.096	64.772	4.362	1.00	67.46	6
		ATOM	243	CB	LYS	В	242	-37.501	65.948	5.258	1.00	67.93	6
		ATOM	244	CĢ	LYS	В	242	-38.746	65.684	6.076	1.00	71.52	6
		ATOM	245	CD			242	-40.007	65.528	5.215		74.32	6
	20	ATOM	246	ÇE			242	-40.416	66.852	4.564		74.41	6
	20												
		ATOM	247	NZ			242	-40.657	67.941	5.575		74.44	7
		ATOM	248	C		В	242	-35.826	65.081	3.592	1.00		6
		ATOM	249	0	LYS	В	242	-35.814	65.799	2,601	1.00	67.61	8
		ATOM	250	N	ARG	В	243	-34.763	64.485	4.112	1.00	64.19	7
·D	25	ATOM	251	CA	ARG	В	243	-33.410	64.577	3.591	1.00	62.43	6
IU		ATOM	252	СВ	ARG		243	-32.599	63.547	4.390	1.00		6
Ø		ATOM	253	CG	ARG			-31.128	63.558	4.171	1.00		6
j.d.													
,		ATOM	254	CD	ARG			-30.335	62.888	5.319	1.00		6
• • • • • • • • • • • • • • • • • • •		ATOM	255	NE	ARG	В	243	-30.269	61.428	5.296	1.00	40.00	7
, .]	30	MOTA	256	CZ	ARG	В	243	-29.384	60.724	6.009	1.00	40.00	6
		ATOM	257	NH1	ARG	В	243	-28.510	61.357	6.798	1.00	40.00	7
El .		ATOM	258	NH2	ARG	В	243	-29.355	59.401	5.908	1.00	40.00	7
		ATOM	259	С	ARG		243	-33.408	64.252	2.100	1.00		6
i.J.		ATOM	260	Õ	ARG		243	-33.690	63.122	1.722		63.96	8
	25												
	35	MOTA	261	N	LYS		244	-33.105	65.245	1.270		62.41	7
ō		ATOM	262	CA		В	244	-33.054	65.053	-0.179		61.57	6
7		MOTA	263	CB	LYS	В	244	-34.104	65.941	-0.866	1.00	63.68	6
1412		ATOM	264	CG	LYS	В	244	-35.527	65.731	-0.337	1.00	71.29	6
		ATOM	265	CD	LYS	В	244	-36.566	66.549	-1.107	1.00	73.83	6
	40	ATOM	266	CE	LYS			-36.219	68.045	-1.138		74.71	6
	. •	ATOM	267	NZ	LYS			-36.169	68,689	0.219		73.32	7
					LYS								
		ATOM	268	С				-31.658	65.402	-0.670		59.30	6
		MOTA	269	0	LYS			-31.317	66.570	-0.852		56.34	8
		ATOM	270	N	PHE			-30,858	64.359	-0.875		57.06	7
	45	MOTA	271	CA	PHE	В	245	-29.462	64.525	-1.305	1.00	59.01	6
		ATOM	272	CB	PHE	В	245	-28.786	63.179	-1.478	1.00	59.62	6
		ATOM	273	CG	PHE			-28.991	62.288	-0.339		66.60	6
		ATOM	274		PHE			-30.200	61.669	-0.172		67.17	6
					PHE								
	5 0	ATOM	275					-28.012	62.117	0.593		69.25	6
	50	MOTA	276		PHE			-30.404	60.882	0.911		69.92	6
		ATOM	277		PHE	В	245	-28.229	61.329	1.669	1.00	70.50	6
		ATOM	278	CZ	PHE	В	245	-29.418	60.714	1.830	1,00	70.89	6
		ATOM	279	C	PHE	В	245	-29.301	65.282	-2.592	1.00	60.68	6
		ATOM	280	0	PHE			-29.859	64.911	-3.619		62.37	8
	55	ATOM	281	N	LEU			-28.495	66.336	-2.505		60.10	7
			282										6
		ATOM		CA	LEU			-28.201	67.199	-3.631		59.44	
		ATOM	283	CB	LEU			-27.248	68.332	-3.231		57.43	6
		ATOM	284	CG	LEU	В	246	-27.118	69.474	-4.207	1.00	54.41	6

	5	ATOM	285	CD1	LEU	В	246	-28.481	70.137	-4.349	1.00	52.43	6
		ATOM	286	CD2	LEU	В	246	-26.112	70.470	-3.719	1.00	51.69	6
		ATOM	287	C	LEŲ	В	246	-27.585	66.379	-4.740	1.00	62.05	6
		ATOM	288	0	LEU	В	246	-26.789	65.446	-4.486	1.00	59.85	8
		ATOM	289	N			247	-27.930	66.693	-5.984	1.00	63.33	7
	10	ATOM	290	CD			247	-28.839	67.781	-6.363		64.44	6
		ATOM	291	CA	PRO		247	-27.391	65.958	-7.130		63.56	6
		ATOM	292	CB	PRO		247	-27.976	66.675	-8.340		64.42	6
		ATOM	293	CG			247	-28.873	67.714	-7.841		64.90	6
		ATOM	294	C			247	-25.866	65.947	-7.143		61.94	6
	15	ATOM	295	0	PRO		247	-25.223	66.944	-6.856		61.60	8
	••	ATOM	296	N	GLU		248	-25.333	64.771	-7.478		61.33	7
		ATOM	297	CA	GLU		248	-23.896	64.516	-7.590		63.50	6
		ATOM	298	CB	GLU		248	-23.630	63.154	-8.248		66.94	6
		ATOM	299	CG	GLU			-22.168	62.953	-8.713		68.70	6
	20	ATOM	300	CD			248	-21.898	61.745	-9.580		40.00	6
	20	ATOM	301	OE1				-22.863		-10.035		40.00	8
		ATOM	302	OE2				-20.709	61.460	-9.838	1.00		8
					GLU					-8.415			
11114		ATOM	303	C				~23.158	65.571			64.19	6
	25	ATOM	304	0	GLU		248	-22.056	65.975	-8.066		65,56	8
เบ็	25	ATOM	305	N	ASP		249	-23.796	66.019	-9.498		64.36	7
ID		ATOM	306	CA	ASP		249	-23.254		-10.436		63.33	6
ļ.		ATOM	307	CB	ASP		249	-24.122		-11.698		62.97	6
i _u		ATOM	308	CG	ASP			-25.437		-11.489		64.63	6
ļ.	20	ATOM	309		ASP			-26.235		-10.629		64.84	8
·	30	ATOM	310		ASP			-25.726		-12.189		66.52	8
8!		ATOM	311	C	ASP			-23.068	68.413	-9.960		64.31	6
		ATOM	312	0	ASP		249	-22.117	69.084	-10.355		64.73	8
Į.Ų		ATOM	313	N			250	-23.987	68.892	-9.136		63.09	7
		ATOM	314	CA			250	-23.921	70.281	-8.660		64.39	6
	35	ATOM	315	CB			250	-25.124	70.575	-7.798		65.79	6
Ū		ATOM	316	CG2	ILE			-25.559	72.041	-7.858		64.78	6
Q		ATOM	317	CG1	ILE			-26.348	69.752	-8.206		65.28	6
		ATOM	318	CD1	ILE			-27.671	70.444	-7.887		65.08	6
		ATOM	319	C	ILE			-22.815	70.488	-7.714		65.21	6
	40	ATOM	320	0	ILE			-22.754	69.847	-6.656			8
	·	ATOM	321	N	GLY			-22.024	71.392	-8.103		65.48	7
		ATOM	322	CA	GLY		•	-20.873	71.721	-7.342		67.32	6
		ATOM	323	C	GLY			-19.808	70.806	-7.800	1.00	68.52	6
		ATOM	324	0	GLY	В	251	-19.791	70.548	-9.025	1.00	65.49	8
	45	ATOM	325	N	GLN	В	252	-19.074	70.440	-6.799	1.00	72.26	7
		ATOM	326	CA	GLN	В	252	-17.949	69.540	-6.883	1.00	74.10	6
		MOTA	327	CB	GLN	В	252	-18.460	68.098	-6.723	1.00	75.82	6
		ATOM	328	CG	GLN	В	252	-17.367	67.088	-6.356	1.00	77.81	6
		ATOM	329	CD	GLN	В	252	-17.924	65.759	-5.824	1.00	79.38	6
	50	ATOM	330	OE1	GLN	В	252	-18.615	65.042	-6.549	1,00	80.55	8
		ATOM	331		GLN			-17.661	65.380	-4.586	1.00	78.12	7
		ATOM	332	С	GLN			-17.258	69.727	-8.258		77.17	6
		ATOM	333	Ó	GLN			-17.977	70.009	-9.227		76.50	8
		ATOM	334	N	ALA			-15.718	69.795	-8.279		80.78	7
	55	ATOM	335	CA	ALA			-14.615	70.766	-8.544		83.70	6
		ATOM	336	CB	ALA			-13.794	70.914	-7.255		83.23	6
		ATOM	337	C	ALA			-13.605	70.732	-9.731		85.59	6
		ATOM	338	0	ALA			-13.186		-10.171		85.69	8
				-		_		10.100	JJ. UJI		2.00		•

	5	ATOM	339	N	PRO	В	254	-13.223	71.944	-10.246	1.00	35.05	7
		MOTA	340	CD	PRO	В	254	-13.798	73.217	-9.752	1.00	33.97	6
		ATOM	341	CA	PRO	В	254	-12.266	72.177	-11.351	1.00	35.89	6
		ATOM	342	СВ	PRO	В	254	-12.275	73.710	-11.596	1.00	33.94	6
		ATOM	343	CG	PRO	В	254	-13.222	74.277	-10.688	1.00	33.31	6
	10	ATOM	344	C	PRO			-10.827	71.665	-11.121	1.00	37.75	6
		ATOM	345	0	PRO			-10.379		-10.009		38.78	8
		TER								•			
		ATOM	1	N	GLY.	в	261	-8.238	79.356	-2.979	1.00	40.00	7
		ATOM	2	CA	GLY			-9.314	78.411			40.00	6
	15	ATOM	3	C	GLY			-10.206	78.717	-4.355		40.00	6
	1.5	ATOM	4	Ö	GLY			-11.372	79.141	-4.256		40.00	8
		ATOM	5	N	GLY			-9.565	78.527	-5.597		40.00	7
		ATOM	6	CA	GLY			-10.136	78.609	-7.087		40.00	6
		ATOM	7	C	GLY			-10.849	79.966	-7.577		40.00	6
	20	ATOM	8	0	GLY			-10.200	81.044	-7.543		40.00	8
	20	ATOM	9	N	LYS			-12.086	79.687	-8.124		61.71	7
			10		LYS			-13.323	80.536			64.36	6
		ATOM		CA	LYS			-14.367					6
i mai		ATOM	11	C				-14.367	79.750 78.579			63.41	
	25	ATOM	12	0	LYS							61.93	8
ΙŪ	25	ATOM	13	CB	LYS			-13.901	80.405	-9.876		63.50	6
ij		MOTA	14	CG	LYS			-13.487		-10.881		20.00	6
-		ATOM	15	CD	LYS			-14.016		-10.612		20.00	6
1		MOTA	16	CE	LYS			-13.641		-11.742		20.00	6
1-4	20	ATOM	17	NZ	LYS			-13.680		-11.341		20.00	7
4	30	ATOM	18	N	VAL			-15.489	80.335	-7.307		61.15	7
£!		ATOM	19	CA.	VAL			-16.616	79.632	-6.619		59.46	6
Ü		ATOM	20	CB	VAL			-17.574	80.703	-6.099		59.03	6
į,j		ATOM	21	CG1				-18.479	80.215	-4.979		53.79	6
		ATOM	22	CG2				-16.847	81.938	-5.562		55.32	6
	35	MOTA	23	С	VAL			-17.330	78.824	-7.700		60.96	6
:0		MOTA	24	0	VAL			-16.940	78.873	-8.873		62.13	8
ij		ATOM	25	N	ASP			-18.378	78.098	-7.340		62.59	7
		ATOM	26	CA	ASP			-19.175	77.339	-8.312		64.95	6
		ATOM	27	CB	ASP			-18.796	75.851	-8.270		64.32	6
	40	ATOM	28	CG	ASP			-19.928	75.022	-8.584		67.70	6
		ATOM	29		ASP			-20.856	75.062	-9.295		72.59	8
		ATOM	30		ASP			-20.370	73.959			68.84	8
		ATOM	31	С	ASP			-20.658	77.614	-8.016		65.64	6
		ATOM	32	0	ASP			-21.342	76.895	-7.313		68.81	8
	45	ATOM	33	N	LEU	В	266	-21.066	78.737	-8.588	1.00	65.12	7
		ATOM	34	CA	LEU	В	266	-22.385	79.330	-8.499	1.00	63.40	6
		ATOM	35	СВ	LEU	В	266	-22.429	80.448	-9.542	1.00	67.34	6
		ATOM	36	CG	LEU	В	266	-21.295	81.459	-9.399	1.00	69.35	6
		ATOM	37	CD1	LEU	В	266	-20.983	82.127	-10.712	1.00	68.24	6
	50	ATOM	38	CD2	LEU	В	266	-21.663	82.461	-8.344	1.00	70.47	6
		ATOM	39	С	LEU	В	266	-23.673	78.507	-8.602	1.00	59.67	6
		ATOM	40	0	LEU	В	266	-24.684	78.890	-7.988	1.00	53.35	8
		ATOM	41	N	GLU			-23.677	77.416	-9.371		58.01	7
		ATOM	42	CA	GLU			-24.901	76.640	-9.449		58.34	6
	55	ATOM	43	СВ	GLU			-24.752		-10.368		59.21	6
		ATOM	44	ÇG	GLU :			-25.979		-10.268		62.89	6
		ATOM	45	CD	GLU			-26.048		-11.328		67.66	6
		ATOM	46		GLU			-25.076		-11.512		69.95	8
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	5	MOTA	101	CA	LYS	В	274	-	-31.983	79.77	4	-2.147	1.00	54.53	6
		ATOM	102	CB	LYS	В	274	-	-32.133	78.72	24	-3.232	1.00	54.36	6
		MOTA	103	С	LYS	В	274	-	-32.819	79.39	96	-0.931	1.00	56.88	6
		MOTA	104	0	LYS	В	274	-	-34.025	79.62	4	-0.906	1.00	57.98	8
		MOTA	105	N	ILE	В	275	-	-32.151	78.82	20	0.076	1.00	56.48	7
	10	ATOM	106	CA	ILE	В	275	-	-32,791	78.38	31	1.332	1.00	52.64	· 6
		ATOM	107	CB	ILE	В	275	-	-32.638	76.86	33	1.519	1.00	49.15	6
		ATOM	108	CG2	ILE	В	275	-	-33.505	76.10	5	0.529	1.00	47.42	6
		MOTA	109	CG1	ILE	В	275	-	-31.188	76.44	1	1.343	1.00	45.31	6
		MOTA	110	CD1	ILE	В	275	-	-30.990	74.95	2	1.391	1.00	37.22	6
	15	ATOM	111	С	ILE	В	275	-	-32.241	79.08	6	2.574	1.00	51.78	6
		MOTA	112	0	ILE	В	275	-	-32.858	79.04	9	3.622	1.00	49.80	8
		MOTA	113	N	ILE	В	276	-	-31.071	79.70	9	2.435	1.00	51.76	7
		MOTA	114	CA	ILE	В	276	-	-30.410	80.40	9	3.533	1.00	52.58	6
		MOTA	115	CB	ILE	В	276	-	-29.145	81.11	.0	3.042	1.00	55.04	6
	20	MOTA	116	CG2	ILE	В	276		29.486	82.17	2	2.017		53.28	6
		ATOM	117	CG1	ILE	В	276	-	-28.396	81.78		4.203	1.00	57.31	6
		ATOM	118	CD1			276	-	27.862	80.85	4	5.231	1.00	60.32	6
		MOTA	119	С			276		31.282	81.46	1	4.237	1.00	50.70	6
		ATOM	120	0	ILE				31.015	81.81		5.385		55.55	8
Û	25	MOTA	121	N			277		32.322	81.95		3.568		47.33	7
IJ		MOTA	122	CA			277		33.174	82.96		4.141		42.59	6
IJ		ATOM	123	CB			277		-34.042	83.63		3.048		44.97	6
		MOTA	124	OG1	THR				33.202	84.14		2.001		46.38	8
^{ا ب} حراً است		MOTA	125	CG2	THR				34.856	84.78		3.653		37.17	6
<u>.</u>	30	MOTA	126	С	THR		277		34.069	82.44		5.267		39.84	6
		ATOM	127	0	THR		277		34.083	83.02		6.375		40.55	8
		MOTA	128	N	PRO		278		34.832	81.38		5.017		38.20	7
		ATOM	129	CD	PRO		278		34.925	80.66		3.747		36.34	6
Ш	2.5	ATOM	130	CA	PRO				35.711	80.83		6.059		36.63	6
	35	MOTA	131	CB	PRO		278		36.475	79.71		5.357		32.95	6
		MOTA	132	CG	PRO				35.833	79.51		4.056		35.75	6
Û		ATOM	133	C	PRO				34.892	80.32		7.220		38.60	6
		ATOM	134	0	PRO				35.372	80.15		8.331		37.67	8
	40	MOTA	135	N	ALA				33.636	80.04		6.927		37.05	7
	40	ATOM	136	CA	ALA				32.696	79.52		7.903		33.18	6
		ATOM	137	CB	ALA				31.391	79.19		7.205		30.56	6
		ATOM	138	C	ALA				32.447			8.991		33,47	6
		ATOM ATOM	139 140	0	ALA ILE				32.623	80.23		10.158		33.74 29.96	8
	45	ATOM	141	N	ILE				32.010 31.728	81.72		8.577			7
	73	ATOM	142	CA CB	ILE				31.728	82.80		9.501		25.94 26.95	6
		ATOM	143		ILE				30.881	84.04 85.14		8.754 9.715		15.40	6 6
		ATOM	144		ILE				29.904	83.69		8.007		26.73	
		ATOM	145		ILE				29.255	84.87		7.362		34.31	6 6
	50	ATOM	145	CDI	ILE				32.964	83.17		10.310		31.39	6
	50	ATOM	147	0	ILE				32.882	83.37		11.522		35.69	8
		ATOM	148	N	THR				34.113	83.23		9.647		30.90	7
		ATOM	149.		THR				35.361	83.58		10.328		33.49	6
		ATOM	150	CB	THR				36.598	83.39		9.419		37.18	6
	55	ATOM	151	OG1	THR				36.703			9.005		46.48	8
		ATOM	152		THR				36.703	84.28		8.198		32.85	6
		ATOM	153	C	THR				35.523			11.556		29.94	6
		ATOM	154	0	THR				35.855	83.18		12.634		25.55	8
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	5	ATOM	155	N	ARG	В	282	-35.296	81.405	11.378	1.00	32.70	7
		ATOM	156	CA	ARG	В	282	-35.439	80.449	12.475	1.00	34.27	6
		ATOM	157	СВ			282	-34.999	79.060	12.020		33.78	6
		ATOM	158	CG			282	-35.986	77.944	12.280		45.15	6
							282					58.24	6
		ATOM	159	CD				-36.701	77.514	11.015			
	10	MOTA	160	NE	ARG		282	-35.771	77.153	9.969		68.41	7
		ATOM	161	CZ			282	-34.862	76.200	10.098		72.31	6
		ATOM	162	NH1	ARG	В	282	-34.779	75.502	11.232	1.00	77.89	7
		ATOM	163	NH2	ARG	В	282	-34.022	75.963	9.096	1.00	69,25	7
		ATOM	164	С	ARG	В	282	-34.556	80.919	13.622	1.00	34.81	6
	15	ATOM	165	0	ARG	В	282	-35.008	81.034	14.753	1.00	36.03	8
		ATOM	166	N			283	-33.288	81.183	13.289		31.71	7
		ATOM	167	CA	VAL			-32.304	81.667	14.249		30.16	6
		ATOM	168	CB	VAL		283	-30.993	82.029	13.559		29.00	6
		ATOM	169		VAL			-30.015	82.617	14.557		28.64	6
	20						283		80.816	12.915		28.28	6
	20	ATOM	170		VAL			-30.385					
		ATOM	171	C			283	-32.848	82.894	14.994		32.50	6
		ATOM	172	0	VAL			-32.619	83.057	16.185		33.48	8
		MOTA	173	N	VAL			-33.573	83.728	14.265		30.96	7
		ATOM	174	CA	VAL			-34.177	84.925	14.844		29.14	6
Q	25	ATOM	175	CB	VAL	В	284	-34.672	85.892	13.751	1.00	31.27	б
ľ		MOTA	176	CG1	VAL	В	284	-35.278	87.129	14.371	1.00	24.21	6
Ü		ATOM	177	CG2	VAL	В	284	-33.554	86.270	12.812	1.00	30.51	6
-		ATOM	178	С	VAL	В	284	-35.336	84.498	15.747	1.00	28.89	6
		ATOM	179	0	VAL	₿	284	-35.491	84.994	16.860	1.00	27.29	8
	30	ATOM	180	N	ASP			-36.143	83.564	15.250	1.00	28.76	7
		ATOM	181	CA	ASP			-37.299	83.057	15.983		35.32	6
§1		ATOM	182	СВ	ASP			-38.129	82.098	15.111		33.29	6
		ATOM	183	CG	ASP			-38.881	82.795	14.013		38.15	6
IJ		ATOM	184		ASP			-39.660	83.729	14.305		34.70	8
	35	ATOM	185		ASP			-38.741	82.406	12.821		34.43	8
	33				ASP			-36.863				36.70	6
		ATOM	186	C			285		82.339	17.257			
٠.0		ATOM	187	0	ASP		285	-37.606	82.304	18.237		37.96	8
		ATOM	188	N	PHE		286	-35.663	81.755	17.235		35.96	7
		ATOM	189	CA	PHE			-35.134	81.053	18.401		37.10	6
	40	ATOM	190	CB	PHE			-33.870	80.262	18.052		37.97	6
		ATOM	191	CG	PHE			-33.079	79.818	19.258		36.50	6
		ATOM	192	CD1	PHE	В	286	-33.704	79.168	20.294	1.00	36.75	6
		ATOM	193	CD2	PHE	В	286	-31.721	80.063	19.343	1.00	33.83	6
		ATOM	194	CE1	PHE	В	286	-32.987	78.769	21.401	1.00	39.55	6
	45	ATOM	195	CE2	PHE	В	286	-30.997	79.662	20.456	1,00	38.08	6
		ATOM	196	CZ	PHE	В	286	-31.632	79.013	21.486	1.00	34.44	6
		ATOM	197	C	PHE			-34.808	82.023	19.504		36.83	6
		ATOM	198	ō	PHE			-35.246	81.845	20.631		35.61	8
		ATOM	199	N	ALA			-34.005	83.027	19.169		37.33	7
	50	ATOM	200	CA	ALA			-33.599	84.035	20.132		36.34	6
	50		201					-32.644	85.008	19.469		36.40	6
		ATOM		CB	ALA								
		ATOM	202	C	ALA				84.769	20.657		38.76	6
		ATOM	203	0	ALA			-34.882	85.193	21.814		41.98	8
	e e	ATOM	204	N	LYS			-35.820	84.912	19.779		38.28	7
	55	ATOM	205	CA	LYS				85.584	20.112		45.26	6
		ATOM	206	CB	LYS				85.690	18.898		48.35	6
		ATOM	207	CG	LYS				86.756	17.916		51.43	6
		ATOM	208	CD	LYS	В	288	-38.806	87.359	17.226	1.00	60.23	6

	10	ATOM ATOM ATOM ATOM	209 210 211 212	CE NZ C	LYS	В	288 288	-39.680 -38.897	86.308 85.460	16.564 15.614		62.81 64.69	6 7
	10	ATOM ATOM ATOM	211				288		85.460	15.614	1,00		7
	10	MOTA MOTA		С									
	10	ATOM	212		PX2	B	288	-37.846	84.901	21.191	1.00	43.31	6
	10			0	LYS	В	288	-38.650	85.532	21.857	1.00	45.66	8
	10	3 mass	213	N	LYS	B	289	-37.618	83.604	21.345	1.00	41.70	7
		MOTA	214	CA	LYS	B	289	-38.313	82.849	22.351	1.00	40.67	б
		atom	215	CB	LYS	В	289	-38.554	81.418	21.845	1.00	42.25	6
		ATOM	216	CG	LYS	B	289	-39.438	81.368	20,589	1.00	39.53	6
		MOTA	217	CD	LYS	B	289	-40.093	80.010	20.422	1.00	43.19	6
		ATOM	218	CE	LYS	В	289	-41.025	79.987	19.223	1.00	45.74	6
	15	ATOM	219	NZ	LYS	В	289	-42.391	80.476	19.512	1.00	52.49	7
	•	MOTA	220	С	LYS	В	289	-37.555	82.871	23.668	1.00	41.50	6
		MOTA	221	0	LYS	В	289	-38.057	82.366	24.657	1,00	39.77	8
		MOTA	222	N	LEU	В	290	-36.365	83.482	23.661	1.00	40.68	7
		MOTA	223	CA	LEU	В	290	~35.539	83.599	24.854	1.00	39.33	6
	20	MOTA	224	CB	LEU	В	290	-34.053	83.499	24.491	1.00	36.14	6
		ATOM	225	CG	LEU	В	290	-33.640	82.240	23.767	1.00	34.81	б
		MOTA	226	CD1	LEU	В	290	-32.147	82.255	23.523	1.00	29.07	6
		ATOM	227	CD2	LEU	В	290	-34.013	81.040	24.607	1.00	33.45	6
		ATOM	228	С	LEU	В	290	-35.832	84.915	25.577	1.00	40.08	6
Ð	25	ATOM	229	0	LEU	В	290	-35.479	86.006	25.088	1,00	42.00	8
ľ		ATOM	230	N			291	-36.462	84.840	26.765	1.00	40.27	7
Ű		ATOM	231	CD	PRO	В	291	-36,819	83.613	27.494	1.00	39.65	б
 		ATOM	232	CA			291	-36.782	86.069	27.501		38.28	6
`\]		ATOM	233	CB			291	-37.376	85.574	28.811		35.88	6
, ^j	30	ATOM	234	CG			291	-37.549	84.110	28.695		34.19	· 6
1: Z		MOTA	235	С			291	-35.570	87.002	27.714		40.05	6
۵		ATOM	236	0	PRO		291	-35.625	88.197	27.403		41.33	8
لَيا		ATOM	237	N	MET		292	-34.474	86.476	28.258		40.59	7
		MOTA	238	CA	MET		292	-33.296	87.286	28.545		42.86	6
	35	ATOM	239	CB	MET		292	-32.149	86.376	28.975		43.28	6
Ū		ATOM	240	CG	MET			-32.553	85.302	29.970		50.35	6
Q		ATOM	241	SD	MET		292	-31.070	84.609	30.755		51.17	16
			242	CE	MET			-31.797	83.212	31.701		54.63	6
	40	ATOM	243	C	MET			-32.895	88.077	27.315		41.05	6
	40	ATOM	244	0	MET			-32.228	89.098	27.420			8
		ATOM	245	N	PHE			-33.322	87.604	26.143		39.30	7
		ATOM	246	CA	PHE			-33.017	88.271	24.878		40.92	6
		ATOM	247	CB	PHE			-33.296	87.329	23.707		40.98	6
	AR	ATOM	248	CG	PHE			-32.937	87.909	22.365		42.78	б
	45	ATOM	249		PHE			-31.653	88.354	22.120		44.40	6
		ATOM	250		PHE			-33.872	87,972	21,350		43.66	6
		ATOM	251		PHE			-31.306	88.869	20.872		39.83	6
		ATOM	252		PHE			-33.525	88.486	20.100		46.21	6
	50	ATOM	253	CZ	PHE			-32.239	88.926	19.859		45.18	6
	50	ATOM	254	C	PHE			-33.873	89.518	24.744		45.54	6
		ATOM	255	0	PHE			-33.369	90.626	24.579		42.01	8
		ATOM	256	N	CYS			-35.181 -36.146	89.305	24.808		47.05	7
		ATOM	257	CA	CYS			-36.146	90.382	24.689		50.15	6
	55	ATOM	258 259	CB SG	CYS			-37.553 -37.999	89.793	24.756		45.90	6 16
	<i>JJ</i>	ATOM ATOM	260	C	CYS CYS			-37.899 -35.974	88.607	23.449		51.50 51.38	16
		ATOM	261	0	CYS			-35.974 -36.585	91.474 92.536	25.751 25.656		53.83	6
		ATOM	262	N	GLU			-35.137	92.536	25.656		49.72	8 7
		A1 OF	202	14	٥٣٥	ی	293	-33.137	91.200	20.733	1.00	77.16	,

	5	ATOM	263	CA	GLU	В	295	-34.839	92.159	27.816	1.00	52.53	6
		ATOM	264	CB			295	-34.553	91.412	29.131	1.00	57.40	6
		ATOM	265	CG			295	-35.811	90.978	29.874		69.63	6
		ATOM	266	CD			295	-36.610	92.144	30.375		78.49	6
		ATOM	267	OE1	GLU			-36.153	92.869	31.297		82.82	8
	10				GLU					29.860		85.30	8
	10	MOTA	268	OE2			•	-37.730	92.385		-		
		ATOM	269	С			295	-33.629		27.415		48.54	6
		ATOM	270	0			295	-32.981	93.627	28.260		49.82	8
		MOTA	271	N			296	-33.374	93.030	26.109	*	43.79	7
		ATOM	272	CA			296	-32.268	93.761	25.540		45.42	6
	15	ATOM	273	CB	LEU	В	296	-31.319	92.769	24.838		41.04	6
		ATOM	274	CG	LEU	В	296	-30.735	91.631	25.662	1.00	42.74	6
		ATOM	275	CD1	LEU	В	296	-30.354	90.478	24,764	1.00	40,99	б
		ATOM	276	CD2	LEU	В	296	-29.559	92.119	26.468	1.00	39.44	6
		ATOM	277	С	LEU			-32.760	94.779	24.522		45.56	6
	20	ATOM	278	0			296	-33.845	94.600	23.924		43.07	8
		ATOM	279	N	PRO		297	-32.004	95.875	24.338		46.99	7
		ATOM	280	CD	PRO		297	-30.740	96.123	25.046		47.12	6
		ATOM			PRO			-32.388	96.912	23.363		49.61	6
	MED.		281	CA						23.363		-	6
•	5	ATOM	282	CB	PRO			-31.294	97.973			49.91	
	₽ 25	ATOM	283	CG	PRO			-30.302	97.477	24.545		51.28	6
	U .o	ATOM	284	С	PRO			-32.263	96.273	21.913		49.59	6
	약 .v	ATOM	285	0	PRO			-31.441	95.340	21.685		51.66	8
	٦ -	MOTA	286	N	CYS			-33.035	96.667	20.854		51.02	7
ı	Ž	ATOM	287	CA	CYS		298	-32.761	96.150	19.456		52.86	6
	± 30 √i	ATOM	288	CB	CYS	В	298	-33.140	97.165	18.356	1.00	54.57	6
		ATOM	289	SG	CYS	В	298	-34.884	97.085	17.836	1.00	67.87	16
	! #43	ATOM	290	С	CYS	В	298	-31.385	96.330	19.127	1.00	48.51	6
1	بد. معا	ATOM	291	0	CYS	В	298	-30.579	95.506	18.744	1.00	49.58	8
# =	لِد	ATOM	292	N	GLU	В	299	-31.107	97.447	19.230	1.00	44.17	7
1	<u>ئا</u> 35	ATOM	293	CA	GLU			-29.989		18.718		47,57	6
Ħ		ATOM	294	СВ	GLU			-29.402	98.973	19.208		49.92	6
٩,	ğ	ATOM	295	CG	GLU			-29.944	100.187	18.433		59.30	6
4	٥	ATOM	296	CD	GLU		299	-31.090	100.887	19.164		63.80	Ģ
		ATOM	297	OE 1	GLU			-31.673		18.629	1.00	69.03	8
	40	ATOM	298		GLU				100.458	20.319		67.10	8
	40												
		ATOM	299	C	GLU			-28.993	96.533	18.987		46.57	6
		ATOM	300	0	GLU			-28.200	96.179	18.111	-	44.65	8
		ATOM	301	N	ASP			-29.045	95.989	20.203		45.17	7
		ATOM	302	CA	ASP			-28.152	94.908	20.584		43.32	6
	45	ATOM	303	CB	ASP			-27.985	94.849	22.105		37.38	6
		ATOM	304	CG	ASP			-27.239	96.016	22.650		36.23	6
		ATOM	305	OD1	ASP	В	300	-26.208	96.421	22.052	1.00	35.87	8
		ATOM	306	OD2	ASP	В	300	-27.661	96.543	23.716	1.00	40.14	8
		ATOM	307	С	ASP	В	300	-28.721	93.591	20.071	1.00	42.81	6
	50	ATOM	308	·O	ASP	В	300	-28.001	92.775	19.489	1.00	46.02	8
		ATOM	309	N	GLN	В	301	-30.019	93.399	20.306	1.00	38.60	7
		ATOM	310	CA	GLN			-30.712	92.197	19.858		40.00	6
		ATOM	311	СВ	GLN			-32.234	92.418	19.836		38.59	6
		ATOM	312	CG	GLN			-32.908	92.380	21.187		40.26	6
	55	ATOM	313	CD	GLN			-34.401	92.583	21.187		44.15	6
	<i>J</i> , <i>J</i>			OE1	GLN				93.637			45.73	8
		ATOM	314	NE2				-34.859		20.589		46.13	7
		ATOM	315		GLN			-35.165	91.602	21.544			6
		ATOM	316	С	GLN	0	30I	-30.237	91.830	18.455	1.00	41.64	9

	5	ATOM	317	0	GLN	В	301	-30.162	90.662	18.100	1.00	45.02	8
		ATOM	318	N			302	-29.916	92.864	17.674	1.00	41.01	7
		ATOM	319	CA	ILE	В	302	-29.424	92.692	16.311	1.00	40.23	6
		MOTA	320	ÇB			302	-29.584	93.978	15.498		39.52	6
		ATOM	321	CG2			302	-29.034	93.792	14.100		31.98	6
	10	ATOM	322	CG1			302	-31.059	94.385	15,416		40.77	6
		ATOM	323	CD1			302	-31.939	93.317	14.775		45.43	6
		ATOM	324	C			302	-27.966	92.260	16.342		38.58	6
		ATOM	325	Ō			302	-27.613	91.197	15.830		40.81	8
		ATOM	326	N			303	-27.128	93.111	16.933		37.50	7
	1 <i>5</i> ·	ATOM	327	CA			303	-25.692	92.846	17.062		39.33	6
	15	ATOM	328	CB			303	-25.066	93.648	18.203		39.06	6
		ATOM	329	CG2			303	-23.566	93,405	18.257		36.19	6
		ATOM	330	CG1			303	-25.309	95.143	18.020		40.15	6
		ATOM	331	CD1			303	-24.816	95.966	19.173		36.93	6
	20	ATOM	332	C .			303	-25.470	91.365	17.323		36.49	6
	20	ATOM	333	0			303	-24.619	90.725	16.712		36.58	8
		ATOM	334	N	LEU			-26.244	90.723	18.266		32.91	7
												27.55	6
144		ATOM	335	CA	LEU			-26.194	89.433	18.633			
	25	ATOM	336	CB	LEU			-27.172	89.182	19.793		22.35	. 6
ů, Vi	25	ATOM	337	CG			304	-26.623	89.449	21.187		26.88	6
Ü		ATOM	338	CDI			304	-25.540	90.495			24.82	6
4		ATOM	339	CD2	LEU		304	-27.747	89.840	22.121		23.69	6
,,,,		ATOM	340	C	LEU		304	-26.505	88.547	17.425		28.05	6
	20	ATOM	341	0	LEU		304	-25.668	87.751	16.983		24.68	8
اوريا	30	ATOM	342	N	LEU		305	-27.716	88.700	16.897		26.34	7
I!		ATOM	343	CA			305	-28.145	87.939	15.741		30.91	6
		ATOM	344	СВ	LEU		305	-29.460	88.514	15.199		32.50	6
لدا		ATOM	345	CG	LEU			-30.699	88.305	16.050		33.36	6
	0.6	MOTA	346	CD1	LEU			-31.938	88.839	15.342		33.87	6
	35	ATOM	347	CD2			305	-30.863	86.812	16.298		31.72	6
Ü		ATOM	348	С	LEU		305	-27.072	87.922	14.666		29.76	6
٠Đ		ATOM	349	0	LEU		305	-26.687	86.860	14.202		29.33	8
		ATOM	350	N	LYS		306	-26.597	89.107	14.291		29.72	7
		ATOM	351	CA	LYS			-25.576	89.254	13.264		34.28	6
	40	ATOM	352	CB	LYS			-25.224	90.732	13.077		35.98	6
		ATOM	353	CG	LYS			-26.350	91.581	12.494		43.35	6
		MOTA	354	CD	LYS			-25.852	92.987	12.182		51.50	6
		ATOM	355	CE	LYS			-24.706	92.932	11.190		53.26	6
		ATOM	356	NZ	LYS			-23.883	94.161	11.251		59.61	7
	45	ATOM	357	С	LYS			-24.308	88.484	13.556		35.25	6
		ATOM	358	0	LYS			-23.681	87.917	12.653		33.95	8
		ATOM	359	N	GLY	В	307	-23.918	88.478	14.829	1.00	35.79	7
		ATOM	360	CA	GLY	В	307	-22.702	87.793	15.227	1.00	34.59	6
		ATOM	361	C	GLY	В	307	-22.811	86.291	15.383	1.00	33.80	6
	50	MOTA	362	0	GLY	В	307	-21.944	85.564	14.895	1.00	31.59	8
		ATOM	363	N	CYS	В	308	-23.861	85.843	16.071	1.00	31.15	7
		MOTA	364	CA	CYS	В	308	-24.069	84.434	16.320	1.00	29.04	6
		ATOM	365	CB	CYS	В	308	-24.761	84.240	17.663	1.00	27.59	6
		ATOM	366	SG	CYS	В	308	-26.496	84.629	17.608	1.00	30.50	16
	55	ATOM	367	С	CYS	В	308	-24.911	83.712	15.266	1.00	30.59	6
		ATOM	368	0	CYS	В	308	-25.088	82.499	15.365	1.00	33.77	8
		ATOM	369	N	CYS	В	309	-25.432	84.429	14.266	1.00	28.46	7
		ATOM	370	CA	CYS	В	309	-26.270	83.787	13.265	1.00	30.10	6

	5	ATOM	371	CB	CYS	В	309	-26.706	84.761	12.194	1.00	33.43	6
		ATOM	372	SG	CYS	В	309	-27.875	84.011	11.089	1.00	35.20	16
		ATOM	373	С	CYS	В	309	-25.617	82.608	12.603	1.00	27.72	6
		ATOM	374	0	CYS	В	309	-26.170	81.518	12.610	1.00	27.69	8
		ATOM	375	N	MET	В	310	-24.447	82.829	12.011		26.15	7
	10	ATOM	376	CA	MET	В	310	-23.737	81.748	11,352		26.06	6
	10	ATOM	377	СВ	MET	В	310	-22.439	82.263	10,712		25.32	6
		ATOM	378	CG	MET		310	-21.584	81.157	10.080		24.08	6
							310	-22.555	80.324	8.758		27.71	16
	•	ATOM	379	SD		В							
		ATOM	380	CE		В	310	-21.549	78.826	8.427		28.50	6
	15	MOTA	381	C	MET		310	-23.416	80.673	12.374		25.94	6
		MOTA	382	0	MET		310	-23.659	79.489	12.151		28.09	8
		ATOM	383	N	GLU		311	-22.865	81.117	13.500	1.00		7
		ATOM	384	CA	GLU	В	311	-22.466	80.231	14.576	1.00	27.03	6
		MOTA	385	CB	GLU	В	311	-22.036	81.048	15.797	1.00	24.39	6
	20	ATOM	386	ÇG	GLU	В	311	-21.019	82.141	15.509	1.00	26.00	6
		ATOM	387	CD	GLU	В	311	-20.524	82.835	16.740	1.00	23.95	6
		ATOM	388	OE1	GLU	В	311	-21.321	83.108	17.668	1.00	19.72	8
		ATOM	389	OE2	GLU	В	311	-19.313	83.163	16.815	1.00	26.51	8
		ATOM	390	C	GLU			-23.582	79.264	14.964		27.51	6
Ü	25	ATOM	391	o	GLU			-23.347	78.068	15.093		29.67	8
IU	20	ATOM	392	N	ILE			-24.794	79.792	15.145		26.82	7
Ø		ATOM	393	CA	ILE			-25.933	78.967	15.527		25.71	6
in.									79.814	16.021		23.35	6
`~J		ATOM	394	CB	ILE			-27.125					
	20	ATOM	395	CG2	ILE			-28.327	78.933	16.276		20.27	6
,	30	ATOM	396	CG1	ILE			-26.771	80.541	17.325		20.88	6
Ei -		ATOM	397	CD1	ILE			-27.952	81.163	18.028		18.15	6
٦		ATOM	398	С	ILE			-26.370	78.072	14.392		27.91	6
لِرَا		ATOM	399	0	ILE			-26.769	76.926	14.605		28.96	8
lil		MOTA	400	N	MET		313	-26.303	78.603	13.174		27.66	7
	35	ATOM	401	CA	MET	В	313	-26.696	77.832	11.999	1.00	30.18	6
Ď		ATOM	402	CB	MET	В	313	-26.696	78.691	10.734	1.00	36.89	6
ğ		ATOM	403	CG	MET	В	313	-27.882	79.634	10.607	1.00	37.95	6
الوشة		ATOM	404	SD	MET	В	313	-28.238	80.275	8.907	1.00	42.38	16
•		ATOM	405	CE	MET	В	313	-26.787	81.316	8.639	1.00	40.68	6
	40	ATOM	406	С			313	-25.791	76.632	11.808	1.00	27.43	6
		ATOM	407	0	MET			-26,258	75.501	11.893		28.61	8
		ATOM	408	N	SER			-24.508	76.882	11.549		24.88	7
		ATOM	409	CA	SER			-23.533	75.824	11.346		27.98	6
		ATOM	410	СВ	SER			-22.150	76.441	11.165		29.64	6
	45		411	OG	SER			-21.844	77.316	12.227		43.44	8
	43	ATOM											
		ATOM	412	С	SER			-23.514	74.774	12.465		22.30	6
		ATOM	413	0	SER			-23.279	73.592	12.199		24.18	8
		MOTA	414	N	LEU			-23.760	75.187	13.714		23.99	7
		MOTA	415	CA	LEU			-23.792	74.219	14.811		25.07	6
	50	ATOM	416	CB	LEU			-24.095	74.869	16.169		19.11	6
		ATOM	417	CG	LEU			-24.507	73.860	17.234		20.39	6
		ATOM	418	CD1	LEU	В	315	-23.390	72.878	17.493	1.00	18.92	6
		ATOM	419	CD2	LEU	В	315	-24.895	74.560	18.514	1.00	12.93	6
		ATOM	420	С	LEU			-24.892	73.219	14.517	1.00	24.53	6
	55	ATOM	421	0	LEU			-24.672	72.014	14.550		26.32	8
		ATOM	422	N	ARG			-26.079	73.762	14.254		28.18	7
		ATOM	423	CA	ARG			-27.278	72.996	13.971		27.54	6
		ATOM	424	СВ	ARG			-28.432	73.941	13.651		27.39	6
						_							_

	5	ATOM	425	CG	ARG E	316	-28.823	74.857	14.809	1.00	22.00	6
		ATOM	426	CD	ARG E	316	-30.074	75.657	14.451	1.00	18.78	6
		ATOM	427	NE	ARG E	316	-30.905	75.944	15.598	1.00	26.57	7
		ATOM	428	CZ	ARG E		-32,166	76.337	15.489	1.00	30.81	6
		ATOM	429	NH1			-32.686	76.535	14.280	1.00	33.71	7
	10	ATOM	430	NH2	ARG E		-32.900	76.542	16.581		33.13	7
	•	ATOM	431	С	ARG E		-27.128	72.028	12.830		28.09	6
		ATOM	432	0	ARG E		-27,852	71.053	12.760		32.41	8
		ATOM	433	N	ALA E		-26.187	72.309	11.941		28.36	7
		ATOM	434	CA	ALA E		-25.938	71.466	10.794		26,64	6
	15	ATOM	435	CB	ALA E		-25.337	72.300	9.675		22.93	6
		ATOM	436	C	ALA E		-24.998	70.327	11.150	-	28.35	6
		ATOM	437	o	ALA E		-25.223	69.187	10.773		32.10	8
		ATOM	438	N	ALA E		-23.941	70.659	11.882		29.12	7
		ATOM	439	CA	ALA E		-22.957	69.682	12.299		27.50	6
	20	ATOM	440	CB	ALA E		-21.915	70.355	13.160		28.39	6
	20	ATOM	441	C	ALA E		-23.645	68.591	13.100		28.10	6
		ATOM	442	0	ALA E		-23.415	67.415	12.854		28.18	8
			442		VAL E							7
		ATOM		N			-24.502	69.012	14.016		29.16	6
Ü	25	ATOM	444	CA	VAL E		-25.259	68.107	14.889		35.24	
ίΩ	25	ATOM	445	CB	VAL E		-26.228	68.897	15.765		27.34	6
Ď		ATOM	446		VAL E		-25.576	70.149	16.246		29.96	6
ab		ATOM	447		VAL E		-27.505	69.212	15.022		31.70	6
į,		ATOM	448	С	VAL E		-26.066	67.146	14.043		40.01	6
-	20	MOTA	449	0	VAL E		-26.701	66.250	14.578		42.70	8
أمرا	30	MOTA	450	N		320 .	-26.025	67.353	12.723		38.64	7
E!		MOTA	451	CA	ARG E		-26.770	66.541	11.762		38.61	6
		ATOM	452	CB	ARG E		-27.838	67.409	11.123		37.26	6
Į,		ATOM	453	CG	ARG E		-29.152	67.280	11.822		43.12	6
لدا		ATOM	454	CD	ARG B		-30.145	68.340	11.387		50.79	6
	35	MOTA	455	NE	ARG B		-31.500	67.911	11.705		54.71	7
		ATOM	456	CZ	ARG E		-32.555	68.723	11.597		57.89	6
·Ω		MOTA	457	NH1	ARG B		-32.398	69,957	11.130		49.08	7
		ATOM	458	NH2	ARG B		-33.773	68.302	11.844		59.59	7
		MOTA	459	С	ARG B		-25.937	65.910	10.670		42.14	6
	40	MOTA	460	0	ARG B		-26.381	65.802	9.532		46.30	8
		ATOM	461	N	TYR B		-24.734	65.488	11.022		42.04	7
		ATOM	462	CA	TYR B	321	-23.858	64.848	10.063	1.00	42.70	6
		ATOM	463	CB	TYR B	321	-22.433	65.332	10.297	1.00	38.01	6
		ATOM	464	CG	TYR B	321	-21.393	64.396	9.756	1.00	37.94	6
	45	ATOM	465	CD1	TYR B	321	-21.265	64.176	8.397	1.00	33.85	6
		ATOM	466	CE1	TYR B	321	-20.333	63.258	7.912	1.00	34.49	6
		ATOM	467	CD2	TYR B	321	-20.583	63.683	10.613	1.00	28.03	6
		ATOM	468	CE2	TYR B	321	-19.658	62.769	10.134	1.00	32.69	6
		ATOM	469	CZ	TYR B	321	-19.532	62.551	8.781	1.00	35.18	6
	50	ATOM	470	ОН	TYR B	321	-18.616	61.661	8.292	1.00	39.48	8
		ATOM	471	С	TYR B		-23.897	63.347	10.234	1.00	45.51	6
		ATOM	472	0	TYR B		-23.560	62.857	11.292		48.02	8
		ATOM	473	N	ASP B		-24.317	62.642	9.188		44.56	7
		ATOM	474	CA	ASP B		-24.391	61.170	9.182		45.86	6
	55	ATOM	475	СВ	ASP B		-25.570	60.749	8.294	1.00		6
	=	ATOM	476	CG	ASP B		-25.449	59.359	7.775	1.00		6
		ATOM	477		ASP B		-24.388	58.737	7.986	1.00		8
		ATOM	478		ASP B		-26.414	58.862	7.117	1.00		8
					;		55.423	55.552				-

	5	ATOM	479	Ç	ASP	В	322	-23.044	60.659	8.682	1.00	45.82	6
		ATOM	480	0			322	-22.738	60.783	7.495	1.00	45.38	8
		ATOM	481	N	PRO	В	323	-22.242	60.005	9.549	1.00	46.53	7
		ATOM	482	CD			323	-22.594	59.676	10.934	1.00	47.16	6
		ATOM	483	CA			323	-20.910	59.487	9.162		46.63	6
	10	MOTA	484	CB			323	-20.367	58.847	10.433		43.95	6
		ATOM	485	CG			323	-21.398	58.958	11.454		43.93	6
		ATOM	486	C			323	-20.933	58.489	8.017		48.34	6
		ATOM	487	Ö	PRO		323	-20.040	58.457	7.171		50.84	8
		MOTA	488	N	GLU		324	-21.951	57.631	8.022		52.39	7
	15	MOTA	489	CA	GLU		324	-22.126	56.615	7.008		55.85	б
	13	ATOM	490	CB	GLU		324	-23.491	55.960	7.216		55.54	6
							324					40.00	6
		ATOM	491	CG				-23.678	55.332	8,581			
		MOTA	492	CD			324	-22.642	54.294	8.888		40,00	6
	20	MOTA	493	OE1			324	-21.796	53.979	8.000	1.00		8
	20	MOTA	494	OE2			324	-22.645	53.751	10.029		40.00	8
		ATOM	495	С			324	-22.087	57.292	5.655		54.94	6
		MOTA	496	0			324	-21.144	57.149	4,896		59.81	8
, rea		ATOM	497	N			325	-23.165	58.022	5.389		52.95	7
Ü		MOTA	498	CA			325	-23.358	58.762	4.163		50.10	6
0	25	MOTA	499	CB			325	-24.768	59.357	4.163		48.23	6
IJ		ATOM	500	OG			325	-25.051	59.976	5.403		48.71	8
Ü		MOTA	501	С			325	-22.324	59.861	3.964		50.61	6
, ~j		MOTA	502	0			325	-21.956	60.176	2.848	1.00	52.19	8
₩		MOTA	503	N	GLU	В	326	-21.851	60.422	5.070	1.00	45.64	7
''	30	ATOM	504	CA	GLU	В	326	-20.854	61.476	5.050	1.00	43.35	6
		ATOM	505	CB	GLU	В	326	-19.602	61.022	4.277	1.00	42.74	б
5		ATOM	506	CG	GLU	В	326	-18.880	59.814	4.876	1,00	50.32	6
		ATOM	507	ĊD	GLU	В	326	-17.576	59.524	4.207	1.00	56.34	6
		ATOM	508	OE1	GLU	В	326	-16.898	58.545	4.608	1.00	59.31	8
	35	ATOM	509	OE2	GLU	В	326	-17.177	60.255	3.266	1,00	55.74	8
Ē		ATOM	510	C	GLU	В	326	-21.401	62.731	4.418	1.00	40.23	6
Ď		MOTA	511	0			326	-20.793	63.285	3.514	1.00	40.44	8
· ind		ATOM	512	N			327	-22.528	63.208	4.934	1.00	35.90	7
		ATOM	513	CA	THR			-23.163	64.418	4.401		37.29	6
	40	ATOM	514	СВ	THR			-24.146		3.285		37.63	6
		ATOM	515		THR			-25.172	63.199	3.803		38.12	8
		ATOM	516		THR			-23.445	63.342	2.130		39.90	6
		ATOM	517	C	THR			-23.961	65.125	5.473		39.49	6
		ATOM	518	o	THR			-24.645	64.473	6.264		40.50	8
	45	ATOM	519	N	LEU			-23.909	66.454	5.473		36.64	7
	43	ATOM	520	CA	LEU			-24.675	67.239	6.447		37.73	6
								-24.061					
		ATOM	521	CB	LEU				68.637	6.620		37.78	6
		ATOM	522	CG	LEU			-22.586	68.750	6.931		36.26	6
	50	ATOM	523		LEU			-22.260	70.145	7.411		36.56	6
	50	ATOM	524		LEU			-22.231	67.751	8.000		39.85	6
		ATOM	525	C	LEU			-26.090	67.344	5.897		37.27	6
		ATOM	526	0	LEU			-26.358	66.855	4.805		34.96	8
		ATOM	527	N	THR			-26.989	67.975	6.647		39.73	7
	<i>c</i>	ATOM	528	CA	THR			-28.369	68.132	6.215		40.81	6
	55	ATOM	529	CB	THR			-29.279	67.135	6,918		42.67	6
		ATOM	530	OG1				-28.799	65.809	6.686		42.52	8
		ATOM	531		THR			-30.702	67.255	6.375		43.52	6
		MOTA	532	С	THR	B	329	-28.853	69.529	6.498	1.00	44.31	6

	5	ATOM	533	0	THR	В	329	-29.432	69.801	7,535	1.00	43.72	8
		ATOM	534	N	LEU	В	330	-28.589	70.413	5.546	1.00	44.62	7
		ATOM	535	CA	LEU	В	330	-28.983	71.812	5.658	1.00	45.09	6
		ATOM	536	CB	LEU	В	330	-28.354	72.608	4.510	1.00	44.66	6
		MOTA	537	CG	LEU	В	330	-26.847	72.735	4.539	1.00	51.06	6
	10	MOTA	538	CD1	LEU	В	330	-26.226	71.367	4.640	1.00	48.58	ઈ
		ATOM	539	CDZ	LEU	В	330	-26.364	73.450	3.299	1.00	45.18	6
		ATOM	540	С	LEU	В	330	-30.508	71.965	5.652	1.00	48.06	6
		ATOM	541	0	LEU	В	330	-31.211	71.244	4,959	1,00	49.33	8
		ATOM	542	N	ASN	В	331	-30.988	72.911	6.458	1.00	52,20	7
	15	ATOM	543	CA	ASN	В	331	-32.407	73.214	6.588	1.00	54.41	6
		ATOM	544	CB	ASN	B	331	-32.870	74.013	5.370	1.00	54.94	6
		ATOM	545	CG	ASN	В	331	-33.687	75.220	5.749	1.00	60.35	6
		ATOM	546	OD1	ASN	В	331	-33.182	76.130	6.430	1.00	61.84	8
		ATOM	547	ND2	ASN	В	331	-34.935	75.242	5.324	1.00	65.92	7
	20	ATOM	548	e	ASN	В	331	-33.251	71.959	6,731	1.00	58.00	6
		ATOM	549	0	ASN	В	331	-34.464	72.000	6.579	1.00	60.17	8
		ATOM	550	N	GLY	В	332	-32.596	70.846	7.054	1.00	58.45	7
		ATOM	551	CA	GLY		332	-33.295	69.587	7.235	1.00	58.55	6
		ATOM	552	C	GLY		332	-33.909	69.004	5.984		59.79	6 ·
Ø	25	ATOM	553	0	GLY		332	-34.609	68.000	6.065	1.00	61.32	8
IU		ATOM	554	N	GLU		333	-33.639	69.628	4.838	1.00	60.28	7
Ø		MOTA	555	CA	GLU	В	333	-34,196	69.182	3,571	1.00	59.13	6
4		ATOM	556	CB	GLU		333	-34.966	70.323	2.885	1.00	62.40	6
,4		ATOM	557	CG	GLU		333	-36.099	70.963	3.690		75.69	6
4	30	ATOM	558	CD	GLU	В	333	-36.720	72.135	2.998	1.00	80.41	6
1		ATOM	559	OE1	GLU		333	-35.984	73.081	2.618	1.00	79.98	. 8
11		ATOM	560	OE2	GLU		333	-37.966	72.158	2.830	1.00	83.81	8
		ATOM	561	С	GLU		333	-33.110	68.722	2.624	1.00	57.18	6
لدا		ATOM	562	0	GLU	В	333	-33.236	67.689	1.974	1.00	57.50	8
لدا	35	ATOM	563	N	MET	В	334	-32.054	69.528	2.539	1,00	55.20	7
		ATOM	564	CA	MET	В	334	-30.926	69.259	1.653	1,00	50.85	6
		ATOM	565	CB	MET	В	334	-30.514	70.563	0,984	1.00	48.70	6
₩		ATOM	566	CG	MET	В	334	-29.244	70.460	0.194	1.00	45.39	6
		ATOM	567	SD	MET	В	334	-28.743	72.008	-0.624	1.00	44.56	16
	40	ATOM	568	CE	MET	В	334	-30.307	72.445	-1.503	1.00	45.25	6
		ATOM	569	C	MET	В	334	-29,711	68.634	2.319	1,00	51.59	6
		MOTA	570	0	MET	В	334	-29.185	69.161	3.291	1.00	52.52	8
		MOTA	571	N	ALA	В	335	-29.270	67.515	1.758	1.00	51.00	7
		ATOM	572	ÇA	ALA	В	335	-28.106	66.802	2.267	1.00	48.98	6
	45	MOTA	573	CB	ALA	В	335	-28.377	65,304	2.274	1,00	47.86	6
		ATOM	574	С	ALA	В	335	-26.931	67.108	1.371	1.00	51.01	6
		ATOM	575	0	ALA	В	335	-26.936	66.760	0.190	1.00	51.61	8
		MOTA	576	N	VAL	В	336	-25.921	67.770	1.930	1.00	46.62	7
		ATOM	577	CA	VAL	В	336	-24.730	68.142	1.152	1.00	42.35	6
	50	ATOM	578	CB	VAL	В	336	-24.466	69.635	1.258	1.00	42.41	6
		ATOM	579	CG1	VAL	В	336	-25.695	70,418	0.860	1,00	42.00	6
		ATOM	580	CG2	VAL	В	336	-24.018	70.004	2.642	1.00	40.32	6
		ATOM	581	С	VAL	В	336	-23.493	67.390	1.611	1.00	45.33	6
		MOTA	582	0	VAL			-23.464	66.775	2.681		47.42	8
	55	ATOM	583	N	THR			-22.461	67.478	0.781		41.60	7
		ATOM	584	CA	THR			-21.172	66.818	1.041		39.69	6
		ATOM	585	CB	THR			-20.720	66.011	-0.173		41.35	6
		ATOM	586	OG1	THR	В	337	-20.273	66.887	-1.213	1.00	49.35	8

	5	ATOM	587	CG2	THR B	337	-21.869	65.175	-0.702	1.00	40.38	6
		ATOM	588	С	THR B	337	-20.087	67.846	1.318	1.00	37.88	6
		ATOM	589	0	THR B	337	-20.141	68.975	0.832	1.00	34.06	8
		ATOM	590	N	ARG B	338	-19.097	67.417	2.095	1.00	37,61	7
		MOTA	591	CA	ARG B	338	-17.942	68.241	2.442	1.00	38.68	6
	10	ATOM	592	СВ	ARG B		-16.770	67.333	2.823	1.00	35.95	6
	-	ATOM	593	ÇG	ARG B		-15.455	68.042	3.064		38.83	6
		ATOM	594	ÇD	ARG B		-14.348	67.029	3.319		35.88	6
		ATOM	595	NE	ARG B		-14.520	66.239	4.530		37.42	7
		ATOM	596	CZ	ARG B		-14.274	66.669	5.766		30.20	6
	15	ATOM	597	NH1	ARG B		-13.794	67.892	5.973		27.98	7
		ATOM	598	NH2	ARG B		-14.481	65.847	6.788		27.40	7
		ATOM	599	C	ARG B		-17.581	69.075	1.229		38.09	6
		ATOM	600	Ö	ARG B		-17.537	70.299	1.284		34.12	8
		ATOM	601	N	GLY B		-17.345	68.383	0.117		41,25	7
	20	ATOM	602	CA	GLY B		-16.981	69.054	-1.119		41.35	6
	20	ATOM	603	C	GLY B		-18.004	70.109	-1.460	•	41.23	6
		ATOM	604	0	GLY B		-17.736	71.291	-1.330		38.30	8
		ATOM	605	N	GLN B		-19.174	69.665	-1.909		38.58	7.
Ü		ATOM	606	CA	GLN B		-20.258	70.564	-2.276		40.79	6
Ď	25	ATOM	607	CB	GLN B		-21.596	69.843	-2.079		40.82	6
īŪ	23	ATOM	608	CG	GLN B		-21.830	68.657	-3.029		41.10	6
ΙĎ		ATOM	609	CD	GLN B		-23.154	67.937	-2,783		48.84	6
_		ATOM	610	OE1	GLN B		-23.353	67.313	-1.715		50.53	8
150		ATOM	611	NE2	GLN B		-24.050	68.015	-3.753		54.25	7
jah	30	ATOM	612	C	GLN B		-20.239	71.872	-1.475		41.50	6
1	30	ATOM	613	0	GLN B		-20.114	72.958	-2.032		42.72	8
51		ATOM	614	N	LEU B	341	-20.352	71.736	-0.156		42.00	7
		ATOM	615	CA	LEU B		-20.332	72.879	0.746		38.10	6
IJ			616	CB	LEU B		-20.401	72.419	2.201		36.66	6
	35	ATOM ATOM	617	CG	LEU B		-20.401	73.514	3.194		39.94	6
	33	ATOM	618	CD1	LEU B		-22.088	74.038	2.936		34.98	6
Ü		ATOM	619	CD2	LEU B	341	-20.570	72.990	4.609		40.95	6
ů		ATOM	620	C	LEU B	341	-19.170	73.763	0.543		36.37	6
		ATOM	621	0	LEU B		-19.293	74.974	0.497		37.89	8
	40	ATOM	622	N	LYS B		-18.003	73.136	0.433		33.29	7
	40		623	-	LYS B		-16.737	73.136	0.433	-	35.17	6
		ATOM ATOM	624	CA CB	LYS B		-15.603	72.821	0.239		34.97	6
		ATOM	625	CG	LYS B		-14.210	73.401	0.306		40.00	6
		ATOM	626	CD	LYS B		-13.155	72.288	0.316		34.48	6
	45	ATOM	627	CE	LYS B		-11.775	72.809	0.755		37.54	6
	40	ATOM	628	NZ	LYS B		-10.790	71.680	0.733		42.32	7
			629	C	LYS B		-16.744	74.685	-1.038		38.29	6
		ATOM			LYS B		-16.744	75.911	-0.993		36.23	8
		ATOM	630	0				73.911	-2.172		39.25	7
	50	ATOM	631	N	ASN B		-16.760	74.609	-3.481		40.19	6
	30	ATOM	632	CA			-16.762	73.539	-4.551		37.96	6
		ATOM	633	CB	ASN B		-16.977				39.22	6
		ATOM	634	CG	ASN B		-16.178	72.272	-4.277			
		ATOM	635		ASN B		-14.938	72.313	-4.106		42.37	8 7
	55	ATOM	636		ASN B		-16.877	71.144	-4.259 -3.547		42.19	6
	J	ATOM	637	C	ASN B		-17.894	75.624	-3.547		40.12	8
		ATOM	638	O N	ASN B		-17.835	76.600 75.361	-4.284 -2.756	1.00		7
		ATOM	639	N	GLY B		-18.934	75.361	-2.756		40.95 39.25	6
		ATOM	640	CA	GLY B	244	-20.101	76.222	-2.709	1.00	JJ. 43	ð

	5	ATOM	641	С	GLY	В	344	-19.867	77.636	-2.258	1.00	38.26	6
		ATOM	642	0	GLY	В	344	-20.715	78.501	-2:484	1.00	35.69	8
		ATOM	643	N	GLY	В	345	-18.724	77.871	-1.619	1.00	35.89	7
		ATOM	644	CA	GLY	В	345	-18.426	79.209	-1.159	1.00	34.00	6
		ATOM	645	С	GLY	В	345	-17.848	79.298	0.230	1.00	38.64	6
	10	ATOM	646	0	GLY	В	345	-17.216	80.303	0.573	1.00	38.14	8
		ATOM	647	N	LEU	В	346	-18.071	78.266	1.041		39.52	7
		ATOM	648	CA	LEU			-17.563	78.279	2.403		36.05	6
	•	ATOM	649	СВ	LEU			-18.311	77.256	3.269		35.72	6
		ATOM	650	CG	LEU			-19.800	77.473	3.378		34.89	6
	15	ATOM	651	CD1	LEU			-20.322	76.678	4.554		44.09	6
		ATOM	652	CD2	LEU		346	-20.086	78.937	3.612		34.84	6
		ATOM	653	C	LEU		346	-16.079	78.018	2.445	1.00		6
		ATOM	654	0	LEU		346	-15.392	78.387	3.394		35.58	8
		ATOM	655	N	GLY		347	-15.586	77.388	1.385		30.47	7
	20	ATOM	656	CA	GLY		347	-14.174	77.078	1.305		33.01	6
	20	ATOM	657	C	GLY			-13.768	76.214	2.477		30.72	6
		ATOM	658	0	GLY			-14.433	75.243	2.808		30.72	8
		ATOM	659	N	VAL			-12.647	76.585	3,087		31.30	7
i eni		ATOM	660	CA	VAL			-12.097	75.867	4.227		31.27	6
	25	ATOM	661	CB	VAL			-10.889	76.609	4.817		31.66	6
T	23	ATOM	662		VAL		348	-11.292	77.974	5.360		20.19	6
ιĎ			663		VAL			-10.250	75.786	5.905		24.77	6
		ATOM										33.84	6
, J		ATOM	664	C	VAL			-13.136	75.651	5.360			8
<u>-</u>	20	ATOM	665	0	VAL			-13.002	74.707	6.153		29.99	
	30	ATOM	666	N	VAL			-14.157	76.518	5.449		33.31	7
2 !		ATOM	667	CA	VAL		349	-15.147	76.339	6.483		32.23	6
		ATOM	668	CB	VAL		349	-16.226	77.393	6.476		32.59	6
IJ	•	ATOM	669		VAL		349	-17.342	76.979	7.399		33.68	. 6
	25	ATOM	670		VAL		349	-15.667	78.703	6.959		32.30	6
[] []	35	ATOM	671	С	VAL		349	-15.792	74.987	6.380		34.91	6
Ū		ATOM	672	0	VAL			-16.055	74.359	7.394		33.73	8
ŧΩ		ATOM	673	N	SER			-16.054	74.507	5.176		32.81	7
		ATOM	674	CA	SER			-16.695	73.215	5.100		30.10	6
	40	ATOM	675	CB	SER			-16.772	72.697	3.684		24.95	6
	40	ATOM	676	OG	SER			-17.538	71.502	3.644		23.16	8
		ATOM	677	C	SER			-15.910	72.254	5.942		31.59	6
		ATOM	678	0	SER			-16.417	71.807	6.950		37.62	8
		ATOM	679	N	ASP			-14.675	71.942	5.565		28.60	7
	4.7	ATOM	680	CA	ASP			-13.905	71.010	6.378		29.82	6
	45	ATOM	681	СВ	ASP			-12.419	71.139	6.050		27.49	6
		ATOM	682	CG	ASP			-12.151	71.094	4.585		30.22	6
		ATOM	683		ASP			-12.013	72.174	3.954		32.61	8
		ATOM	684		ASP			-12.064	69.980	4.017		30.02	8
		ATOM	685	С	ASP			-14.176	71.343	7.861		30.63	6
	50	ATOM	686	0	ASP			-14.458	70.474	8.681		29.54	8
		ATOM	687	N	ALA			-14.111	72.629	8.177		25.33	7
		ATOM	688	CA	ALA			-14.346	73.092	9.533		28.59	6
		MOTA	689	CB	ALA			-14.252	74.606	9.572		20.95	6
		ATOM	690	С	ALA			-15.690	72.630	10.086		29.69	6
	55	ATOM	691	0	ALA	В	352	-15.757	72.068	11.164		30.36	8
		ATOM	692	N	ILE :			-16.754	72.884	9.330		27.63	7
		ATOM	693	CA	ILE :			-18.096	72.506	9.729		27.55	6
		ATOM	694	CB	ILE :	В	353	-19.144	73.129	8.800	1.00	28.04	6

	5	ATOM	695	CG2	ILE	В	353	-20.529	72.673	9.195	1.00	23.68	6
		ATOM	696	CG1	ILE	B	353	-19.108	74.657	8.869	1.00	27.33	6
		ATOM	697	CD1	ILE	В	353	-20.141	75.313	7.964		26.23	6
		ATOM	698	C			353	-18.309	71.002	9.775		30.88	6
		ATOM	699	o			353	-19.021	70.499	10.639		31.22	8
	10	MOTA	700	N			354	-17.728	70.279	8.822		29.86	7
	10	ATOM	701	CA			354	-17.881	68.831	8.797			6
												31.08	
		ATOM	702	CB			354	-17.461	68.249	7.439		28.80	6
		MOTA	703	CG			354	-18.568	68.233	6.405		28.80	6
		MOTA	704	CD1			354	-19.031	69.403	5.833		30.96	б
	15	MOTA	705	CD2	PHE			-19,150	67.027	6.034		29.45	6
		ATOM	706	CEl	PHE			-20.066	69.362	4.902		27.12	6
		MOTA	707	CE2	PHE			-20.186	66.978	5.104	1.00	25.19	6
		MOTA	708	CZ	PHE	В	354	-20.644	68.146	4.535	1.00	28.09	6
		ATOM	709	С	PHE	В	354	-17.041	68.223	9.913	1.00	29.17	6
	20	ATOM	710	0	PHE	В	354	-17.544	67.429	10.700	1.00	32.62	8
		ATOM	711	N	ASP	В	355	-15.761	68.593	9.972	1,00	23.86	7
		ATOM	712	CA	ASP	В	355	-14.864	68.090	11.005	1.00	25.34	6
		ATOM	713	CB	ASP	В	355	-13.582	68.929	11.045	1.00	21.41	6
		ATOM	714	CG	ASP	В	355	-12.548	68.456	10.086		32.08	6
Ō	25	ATOM	715		ASP			-12.899	68.069	8.944		33.58	8
ĪŪ		ATOM	716		ASP			-11.345	68.477	10.450		33.20	8
Ö		ATOM	717	C	ASP			-15.570	68.153	12.357		27.86	6
		ATOM	718	0	ASP			-15.430	67.257	13.182		32.42	8
·	•	ATOM	719	N	LEU			-16.339	69.223	12.561		26.84	. 7
	30												
į,	30	ATOM	720	CA	LEU			-17.085	69.400	13.803		28.66	6
41		ATOM	721	CB	LEU			-17.832	70.742	13.800		25.37	6
٦	•	ATOM	722	CG	LEU			-18.655	71.091	15.023		27.61	6
لدا		ATOM	723	CD1	LEU			-17.729	71.248	16.191		25.43	6
Ш		ATOM	724		LEU			-19.430	72.363	14.808		27.49	6
	35	ATOM	725	С	LEU			-18.084	68.260	13.883		30.44	6
Ū		MOTA	726	0	LEU		356	-18.054	67.445	14.804		31.55	8
Ō		ATOM	727	N	GLY			-18.972	68.214	12.891		32.69	7
		ATOM	728	CA	GLY	В	357	-20.001	67.186	12.846	1.00	29.87	6
		MOTA	729	С	GLY	В	357	-19.486	65.832	13.279	1.00	33.12	6
	40	MOTA	730	0	GLY	В	357	-20.032	65.246	14.207	1.00	29.41	8
		MOTA	731	N	MET	В	358	-18.444	65.351	12.593	1.00	33.31	7
		ATOM	732	CA	MET	В	358	-17.834	64,066	12.902	1.00	35.87	6
		ATOM	733	CB	MET	В	358	-16.513	63.903	12.151	1.00	34.56	6
		ATOM	734	CĢ	MET	В	358	-16.649	63,908	10.657	1.00	46.43	6
	45	ATOM	735	SD	MET			-15.094		9.751		42.13	16
		ATOM	736	CE	MET			-14.121	65.063	10.228		44.29	6
		ATOM	737	С	MET			-17.552		14.392		33.26	6
		ATOM	738	o	MET			-18.019		15.075		36.39	8
		ATOM	739	N	SER			-16.766	64.933	14.875		33.31	7
	50	ATOM	740	CA	SER		•	-16.380	64.998	16.270		34.39	6
	50		741										
		ATOM		CB	SER			-15.724	66.339	16.541		30.84	6
		ATOM	742		SER			-15.130	66.355	17.825		47.14	8
		ATOM	743	С	SER			-17.579	64.813	17.169		36.43	6
	55	ATOM	744	0	SER			-17.635	63.853	17.922		35.46	8
	55		745	N	LEU			-18.525	65.744	17.079		36.74	7
			746		LEU			-19.741	65.729	17.889		35.44	6
			747		LEU			-20.706	66.817	17.405		34.16	6
		ATOM	748	CG	LEU	В	360	-20.263	68.255	17.575	1.00	34.59	6

	5	ATOM	749	CD1	LEU	В	360	-21.394	69.181	17.212	1.00	33.53	6
		ATOM	750	CD2	LEU	В	360	-19.869	68.486	19.010	1.00	31.69	6
		ATOM	751	С	LEU	В	360	-20.464	64.397	17.924	1.00	38.72	6
		ATOM	752	0			360	-21.021	64.011	18.958		38.29	8
		ATOM	753	N			361	-20.466	63.708	16.791		40.96	7
	10	ATOM	754	CA			361	-21.106	62.416	16.721		45.67	6
	10	ATOM	755	CB			361	-20.532	61.630	15.551		46.45	6
		ATOM	756	OG			361	-20.750	62.314	14.322		51.81	8
		ATOM	757	С			361	-20.895	61.638	18.018		44.49	б
	4.6	ATOM	758	0	SER		361	-21.696	60.793	18.362		46.67	8
	15	ATOM	759	N			362	-19.811	61.953	18.726		41.44	7
		ATOM	760	ÇA			362	-19.453	61.309	19.972		42.13	6
		ATOM	761	CB	SER	В	362	-17.962	61.510	20.234	1.00	42.61	6
		ATOM	762	OG	SER	В	362	-17.164	61.025	19.158	1.00	51.87	8
		ATOM	763	С	SER	В	362	-20.228	61.812	21.174	1.00	38.41	6
	20	ATOM	764	0	SER	В	362	-20.602	61,025	22.035	1.00	38.01	8
		ATOM	765	N	PHE	В	363	-20.455	63.123	21.228	1.00	34.55	7
		ATOM	766	CA	PHE	В	363	-21.150	63.735	22.346	1.00	32.96	6
		ATOM	767	СВ			363	-21.006	65.245	22.285		31.99	6
		ATOM	768	CG			363	-19.578	65.719	22.378		29.97	6
Ü	25	ATOM	769	CD1			363	-19.286	67.058	22.447		30.61	6
เบิ		ATOM	770	CD2	PHE		363	-18.536	64.800	22.391		32.02	6
Ü		ATOM	771	CE1	PHE		363	-17.966	67.489	22.543		33.67	6
-		ATOM	772	CE2			363	-17.221	65.222	22.484		30.91	6
, d			773	CZ									
ļ	20	ATOM			PHE		363	-16.927	66.557	22.554		29.33	6
أميا	30	ATOM	774	С			363	-22.617	63.361	22,482		30.52	6
11		MOTA	775	0			363	-23.142	63.331	23.596		32.19	8
		MOTA	776	N	ASN		364	-23.279	63.075	21.361		33,51	7
لدا		MOTA	777	CA	ASN		364	-24.683	62.701	21.377		38.03	. 6
		MOTA	778	CB	ASN		364	-24.855	61.369	22.111		42.32	6
	35	ATOM	779	CG	ASN			-24.008	60.271	21.524		53.11	6
Ō		MOTA	780		ASN			-24.183	59.895	20.344		59.51	8
		ATOM	781	ND2	ASN	В	364	-23.102	59.746	22.325	1.00	55.95	7
		MOTA	782	С	ASN	В	364	-25.494	63.771	22.091	1.00	31.89	6
		MOTA	783	0	ASN	В	364	-26.279	63.471	22.990	1.00	30.28	8
	40	MOTA	784	N	LEU	В	365	-25.306	65.018	21.673	1.00	27.62	7
		MOTA	785	CA	LEU	В	365	-26.005	66.144	22.280	1.00	29.36	6
		MOTA	786	CB	LEU	В	365	-25.402	67.443	21.743	1.00	27.54	6
		ATOM	787	CG	LEU	В	365	-23.897	67.453	21.738	1.00	38.91	6
		ATOM	788	CD1	LEU	В	365	-23.391	68.766	21.190		34.47	6
	45	ATOM	789		LEU			-23.393	67.214	23.143		34.24	6
		ATOM	790	C	LEU			-27.496	66.074	21.987		26.23	6
		ATOM	791	0	LEU			-27.911	65.790	20.863		27.06	8
		ATOM	792	N	ASP			-28.296	66.321	23.022		25.23	7
		ATOM	793	CA	ASP			-29.752	66.320	22.878		26.07	6
	50	ATOM	794	CB	ASP			-30.441				29.68	
	50								65.651	24.076			6
		ATOM	795	CG	ASP			-30.221	66.374	25.360		35.74	6
		ATOM	796		ASP			-30.277	67.617	25.387		36.78	8
		ATOM	797		ASP			-30.017	65.711	26.410		41.23	8
		ATOM	798	C	ASP			-30.230	67.752	22.740		27.70	6
	55	ATOM	799	0	ASP			-29.552	68.678	23.171		31.94	8
		ATOM	800	N	ASP			-31.409	67.913	22.142		29.18	7
		ATOM	801		ASP			-32.031	69.225	21.930		32.72	6 .
		ATOM	802	CB	ASP	В	367	-33.558	69.106	22.071	1.00	38.04	6

	5	ATOM	803	CG	ASP	В	367	-34.172	68.166	21.081	1.00	42.43	6
		ATOM	804	0D1	ASP	В	367	-34.051	68.373	19.854	1.00	35.95	8
		ATOM	805	OD2	ASP	В	367	-34.829	67.188	21.504	1.00	51.42	8
		ATOM	806	C	ASP	В	367	-31.496	70.238	22.959	1.00	33.71	6
		ATOM	807	0	ASP	В	367	-30.791	71.188	22.624	1.00	38.30	8
	10	ATOM	808	N	THR	В	368	-31.858	69.997	24.218	1.00	31.06	7
		ATOM	809	CA	THR	В	368	-31.453	70.822	25.344	1.00	26.28	6
		ATOM	810	CB	THR	В	368	-31.567	70.020	26.643	1.00	27.30	б
		ATOM	811	OG1	THR	В	368	-32.916	69.578	26.824	1.00	33.42	8
		ATOM	812	CG2	THR	В	368	-31.143	70.855	27.824	1.00	25.16	6
	15	ATOM	813	C	THR	B	368	-30.025	71.315	25.181	1.00	21.13	6
		ATOM	814	0	THR	В	368	-29.746	72.508	25.150	1.00	23.17	8
		ATOM	815	N	GLU	В	369	-29.123	70.354	25.072	1.00	21.32	7
		ATOM	816	CA	GLU	В	369	-27.711	70.634	24.932	1.00	28.00	6
		ATOM	817	CB	GLU	В	369	-26.947	69.306	24.878	1.00	32.79	6
	20	ATOM	818	CG	GLU	В	369	-27.229	68.433	26.130	1.00	36.29	6
		ATOM	819	CD	GLU	В	369	-26.689	67.051	26,083	1.00	41.03	6
		ATOM	820	OE1	GLU	В	369	-26.960	66.318	25.102	1.00	42.05	8
		ATOM	821	OE2	GLU	В	369	-25.992	66.645	27.048	1.00	42.03	8
		ATOM	822	С	GLU	В	369	-27.428	71.527	23.731	1.00	25.57	6
٠Đ	25	ATOM	823	0	GLU	B.	369	-26.780	72.549	23.886	1.00	20.56	8
ľ		ATOM	824	N	VAL	В	370	-27.922	71.154	22.548	1.00	25.39	7
D		ATOM	825	CA	VAL	В	370	-27.710	71.968	21.355	1.00	25.99	6
<u>,.4</u>		ATOM	826	CB	VAL	В	370	-28.457	71,429	20.130	1.00	26.15	6
14		ATOM	827	CG1	VAL	В	370	-28.255	72.358	18.953	1.00	27.65	6
[- <u>L</u>	30	ATOM	828	CG2	VAL	В	370	-28.014	70.021	19.788	1.00	17.70	6
*4		ATOM	829	Ç	VAL	В	370	-28.238	73.346	21.676	1.00	26.49	6
		ATOM	830	0	VAL	В	370	-27.580	74.351	21.445	1.00	28.16	8
I.J		MOTA	831	N	ALA	В	371	-29.450	73.362	22.213	1.00	21,01	. 7
		ATOM	832	ÇA	ALA			-30.145	74.589	22.573	1.00	19.57	6
	35	ATOM	833	CB	ALA			-31.414	74.246	23.335		18.62	
Ū		ATOM	834	С	ALA			-29.256	75.501	23.401		23.48	6
		MOTA	835	0	ALA			-28.936	76.613	22.989		32,67	8
٠.		MOTA	836	N	LEU			-28.860	75.008	24.571		22.89	7
	4.0	ATOM	837	CA	LEU			-27.999	75.758	25.472		23.28	6
	40	MOTA	838	CB	LEU			-27.606	74.860			27.76	6
		ATOM	839	CG	LEU			-28.728	74.524	27.619		21.18	6
		ATOM	840		LEU			-28.272	73.529	28.648		27.64	6
		ATOM	841		LEU			-29.198	75.801	28.284		20.90	6
	45	ATOM	842	C	LEU			-26.769	76.268	24.722		21.34	6
	45	ATOM	843	0	LEU			-26.439	77.454	24.762		23.16	8
		ATOM	844	N	LEU			-26.111	75.349	24.023		24.42	7
		ATOM	845	CA	LEU			-24.916	75.669	23.254		23.78	6
		ATOM	846	CB	LEU			-24.525	74.446	22.396		22.18	6
	50	ATOM	847	CG	LEU			-23.098	74.283	21.942		31.52	6
	50	ATOM	848		LEU			-22.196	74.576	23.100		31.93	6
		ATOM	849		LEU			-22.873	72.889	21.457		30.24	6
		ATOM	850	С	LEU			-25.235	76.902	22.405		25.69	6
		ATOM	851	0	LEU			-24.491	77.880	22.416		30.13	8
	55	ATOM	852	N	GLN			-26.368	76.842	21.707		26.24	7
	J.J	ATOM	853	CA	GLN			-26.836	77.922	20.839		21.60	6
		ATOM	854	CB	GLN			-28.196	77.571	20.221		24.57	6
		ATOM	855 856	CG	GLN			-28.188 -29.538	76.330	19.348		21.02	6
		ATOM	856	CD	GLN	ø	3/4	-29.538	76.071	18.69 8	1.00	22.86	é

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	5	MOTA	857	0E1	GLN	В	374	-29.720	75.049	18.009	1.00	24.07	8
		ATOM	858	NE2	GLN	В	374	-30.473	76.980	18.901	1.00	25.59	7
		ATOM	859	C	GLN		374	-26.988	79.249	21.569	1.00	20.66	6
		ATOM	860	Ó	GLN			-26.733	80.307	20.994		24.47	8
		ATOM	861	N	ALA			-27.429	79.182	22.825		16.26	7
	10	ATOM	862	CA	ALA			-27.639	80.374	23.631		17.16	6
	10		863	CB	ALA			-28.435	80.025	24.865		19.53	6
		MOTA										25.13	6
		ATOM	864	C	ALA			-26.304	80.966	24.025			
		MOTA	865	0	ALA			-26.074	82.154	23.833		23.81	8
		ATOM	866	N	VAL		376	-25.433	80.111	24.568	•	24.57	7
	15	ATOM	867	ÇA	VAL		376	-24.102	80.526	24.906		25.80	б
		atom	868	CB	VAL		376	-23.192	79.321	25.234		26.49	6
		ATOM	869	eg1	VAL	В	376	-21.806	79.780	25.620	1.00	23.20	6
		ATOM	870	CG2	VAL	B	376	-23.771	78.433	26.310	1.00	19.08	6
		ATOM	871	C	VAL	В	376	-23.510	81.403	23.898	1.00	25.69	6
	20	ATOM	872	6	VAL	В	376	-22.796	82.364	24.166	1.00	27.07	8
		ATOM	873	N	LEU	В	377	-23.827	81.049	22.659	1.00	23.09	7
		MOTA	874	ÇA	LEU			-23.340	81.774	21.492	1.00	22.86	6
		ATOM	875	СВ	LEU		377	-23.552	80.920	20.230		18.50	6
		ATOM	876	CG	LEU		377	-22.756	79.638	20.146		22.65	6
Ď	25	ATOM	877	CD1				-23.221	78.786	19.000	•	16.70	6
ĪŪ	20	ATOM	878	CD2	LEU		377	-21.300	79.995	20.000		19.58	6
ΙĎ		ATOM	879	C	LEU		377	-24.073	83.102	21.384		26.14	6
<u>i</u> ₩									84.164	21.419		20.62	8
`~ <u>.</u>		ATOM	880	0	LEU		377	-23.464				· ·	7
indi-	20	ATOM	881	N	LEU		378	-25.396	83.023	21.265		28.99	
·	30	ATOM	882	CA	LEU		378	-26.228	84.217	21.147		28.87	6
#! #!		ATOM	883	CB	LEU			-27.696	83.894	21.450		26.89	6
		ATOM	884	CG	LEU		378	-28.648	85.068	21.500		28.83	6
į,		MOTA	885	CD1	LEU		378	-28.507	85.854	20.225		27.97	6
1,1		ATOM	886	CD2	LEU		378	-30.072	84.605	21.692		27.69	6
IJ	35	ATOM	887	С	LEU	В	378	-25.738	85.280	22.090	1.00	31.09	6
ij		MOTA	888	0	LEU	В	378	-25.398	86.379	21.651	1.00	31.77	8
ıD		ATOM	889	N	MET	В	379	-25.695	84.931	23.376	1.00	31.44	7
i Ad		ATOM	890	CA	MET	В	379	-25,291	85.851	24.434	1.00	32.62	6
		ATOM	891	CB	MET	В	3 7 9	-25.797	85.335	25.793	1.00	31.45	б
	40	ATOM	892	CG	MET	В	379	-27.332	85.262	25.883	1.00	38.75	6
		ATOM	893	SD	MET	В	379	-28.020	86.915	25.550	1.00	41.27	16
		ATOM	894	CE	MET			-29.814	86.586	25.513		35.68	6
		ATOM	895	С	MET			-23,796	86.129	24.538		33.72	6
		ATOM	896	0	MET			-23.246	86.190	25.633		36.29	8
	45	ATOM	897	N	SER			-23.152	86.335	23.399		34.49	7
	7.5	ATOM	898	CA	SER			-21.738	86.659	23.391		33.97	6
		ATOM	899	CB	SER			-21.730	86.360	22.010		31.24	6
												39.42	8
		ATOM	900	OG	SER			-21.224	84.978	21.696			
	60	ATOM	901	С	SER			-21.635	88.145	23.705		39.69	6
	50	ATOM	902	0	SER			-22.084	88.989	22.933		44.64	8
		MOTA	903	N	SER			-21.053	88.451	24.857		41.04	7
		ATOM	904	CA	SER			-20.907	89.826	25.308		44.91	6
		ATOM	905	CB	SER			-20.610	89.832	26.797		44.50	6
		ATOM	906	OG	SER			-19.351	89.229	27.037		45.42	8
	55	MOTA	907	С	SER			-19.815	90.614	24.602		44.59	6
		ATOM	908	0	SER			-19.725	91.825	24.751		49.32	8
		MOTA	909	N	ASP			-18.977	89.922	23.848		43.75	7
		MOTA	910	CA	ASP	В	382	-17.886	90.556	23.144	1.00	43.93	6
							•						

	5	ATOM	911	CB	ASP :	В	382	-16.727	89.562	23.028	1.00	48.39	6
		MOTA	912	CG	ASP :	В	382	-17.142	88.232	22.471	1.00	53,23	6
		MOTA	913		ASP		382	-18.102	87.621	23.002	1.00	56.97	8
		ATOM	914		ASP		382	-16.513	87.753	21.480	1.00	58.91	8
		ATOM	915	C	ASP		382	-18.191	91.172	21.772		41.09	6
	10						382	-17.366	91.899	21.229		40.93	8
	10	ATOM	916	0	ASP								
		ATOM	917	N	ARG		383	-19.369	90.908	21,224		42.63	7
		ATOM	918	CA	ARG		383	-19.698	91.445	19.934		43.32	б
		ATOM	919	CB	ARG I		383	-21.131	91.101	19.557		42.31	6
		MOTA	920	CG	ARG	В	383	-21.619	89.672	19.811	1.00	40.83	6
	15	ATOM	921	CD	ARG I	В	383	-21.144	88.627	18.804	1.00	38.09	6
		ATOM	922	NE	ARG	В	383	-21,922	87.415	18.943	1.00	37.33	7
		ATOM	923	CZ	ARG	В	383	-21.584	86.250	18.411	1.00	38.35	б
		ATOM	924	NH1	ARG	В	383	-20.465	86.143	17.700	1.00	33.70	7
		ATOM	925	NH2	ARG		383	-22.369	85.196	18.604		35.46	7
	20	ATOM	926	С	ARG		383	-19.591	92.958	20.007	1.00	44.96	6
	20	ATOM	927	Õ	ARG		383	-20.050	93.577	20.980		45.60	8
		ATOM	928	N	PRO		384	-18.975	93.579	19.005		45.33	7
												46.85	6
. 178-7		ATOM	929	CD	PRO I		384	-18.395	92.881	17.854	-		
(2	0.5	ATOM	930	CA	PRO		384	-18.808	95.035	18.947		47.37	6
Ü	25	MOTA	931	CB	PRO		384	-17.868	95.255	17.764		46.90	6
Ų		ATOM	932	CG	PRO 1		384	-17.575	93.934	17.187		46.41	6
Ü		ATOM	933	С	PRO 1		384	-20,125	95.778	18.762		48.29	6
ᆂ		ATOM	934	0	PRO 1	В	384	-21.048	95.277	18.120		48.34	8
Ų		ATOM	935	N	GLY 1	В	385	-20.185	96.994	19.314	1.00	49.88	7
	30	ATOM	936	CA	GLY I	В	385	-21.371	97.838	19.192	1.00	50.35	6
"		ATOM	937	С	GLY I	В	385	-22.410	97.615	20.265	1.00	50.70	6
g i		ATOM	938	0	GLY I	В	385	-23.382	98.363	20.374	1.00	53.48	8
		ATOM	939	N	LEU I		386	-22.205	96.557	21.044	1.00	49.04	7
لدا		ATOM	940	CA	LEU		386	-23.136	96.211	22.101		50.53	6
IJ	35	ATOM	941	СВ	LEU		386	-22.640	94.972	22.853	-	45.17	6
	33	ATOM	942	CG	LEU		386	-22.744	93.653	22.121	1.00	48.26	6
Ð		ATOM	943	CD1	LEU		386	-22.122	92.525	22.938	1.00	41.68	. 6
·Ω													6
		ATOM	944		LEU		386	-24.215	93.376	21.852	1.00	38.40	
	40	ATOM	945	C	LEU		386	-23.322	97.357	23.058	1.00	52.13	6
	40	ATOM	946	0	LEU I			-22.438	98.182	23.234		53.67	8
		ATOM	947	N	ALA I			-24.499	97.398	23.666		53.42	7
		ATOM	948	CA	ALA I			-24.830	98.441	24.624		56.01	6
		ATOM	949	CB	ALA I			-26.223	98.993	24.339		56.47	6
		ATOM	950	С	ALA I	В	387	-24.775	97.853	26.024	1.00	55.52	6
	45	ATOM	951	0	ALA I	В	387	-23.798	98.027	26.753	1.00	53.75	8
		ATOM	952	N	CYS I	В	388	-25,843	97.145	26.371	1.00	56.03	7
		ATOM	953	CA	CYS I	В	388	-26.000	96.525	27.673	1.00	59.57	6
		ATOM	954	СВ	CYS I			-27.469	96.134	27.839	1,00	59.23	6
		ATOM	955	SG	CYS I			-28,620	97.392	27.264		58.64	16
	50	ATOM	956	C	CYS			-25.105	95.283	27.798		62.18	6
		ATOM	957	0	CYS			-25.590	94.164	27.868		67.88	8
		ATOM	958	N	VAL I			-23.789	95510	27.824		60.78	7
					VAL I			-23.769	94.434	27.959		57.70	6
		ATOM	959	CA									
	5 E	ATOM	960	CB	VAL I			-21.355	94.976	27.998		57.09	6
	55	ATOM	961		VAL			-20.361	93.832	28.085		59.03	6
		ATOM	962		VAL I			-21.065	95.845	26.791		53.98	6
		ATOM	963	C	VAL I			-23.078	93.642	29.230		57.77	6
		ATOM	964	0	VAL I	3	389	-23.727	92.602	29.203	1.00	60.94	8

	5	MOTA	1019	CD	GLN	В	396	-21.214	83.871	27.016	1.00	29.46	6
		ATOM	1020	OE1	GLN	В	396	-20.547	84.930	27.109	1.00	34.65	8
		ATOM	1021	NE2			396	-21.112	83.032	25.992		27.21	7
		ATOM	1022	С	GLN			-23.908	83.207	30.434		37.13	6
		ATOM	1023	0	GLN			-23.876	81.986	30.384		37.36	8
	10	ATOM	1024	N	ASP			-23.544	83.903	31.508		38.61	7
	10		1025		ASP			-23.069	83.250	32.717		40.37	6
		ATOM		CA									
		ATOM	1026	CB	ASP			-22.617	84.297	33.754		40.51	6
		ATOM	1027	CG	ASP			-21.360	85.025	33.352		43.77	6
		MOTA	1028		ASP			-20.337	84.366	33.054		46.50	8
	15	MOTA	1029		ASP			-21.343	86.287	33.350		51.34	8
		ATOM	1030	С	ASP			-24.223	82.422	33.267	1.00	38.62	б
		MOTA	1031	0	ASP	В	397	-24.023	81.327	33.778 ⁻	1.00	39.20	8
		ATOM	1032	N	SER	В	398	-25.432	82.962	33,138	1.00	37.84	7
		ATOM	1033	CA	SER	В	398	-26.633	82.293	33.622	1.00	37.80	6
	20	ATOM	1034	СВ	SER	В	398	-27.830	83.246	33.501	1.00	34.28	6
		ATOM	1035	OG	SER	В	398	-28.995	82.715	34.114	1.00	46.60	8
		ATOM	1036	С	SER			-26.911	80.997	32.867		38.41	6
		ATOM	1037	ō	SER			-27.454	80.047	33.433		39.98	8
4=4		ATOM	1038	N	PHE			-26.546	80.963	31.587		34.82	7
	25	ATOM	1039	CA	PHE			-26.772	79.768	30.781		35.96	6
īŪ	23	ATOM	1040	CB	PHE		399	-26.892	80.100	29.293		35.75	6
			1041		PHE		399	-28.211	80.717	28.906		39.30	6
ΙĎ		ATOM		CG									
		ATOM	1042	CD1			399	-28.466	82.056	29.109		39.86	6
	20	ATOM	1043	CD2	PHE			-29.194	79.938	28.355		36.81	6
, v.J	30	ATOM	1044	CE1	PHE			-29.700	82.602	28.739		41.25	6
		MOTA	1045	CE2	PHE			-30.424	80.483	27.987		43.61	6
21 2 1		MOTA	1046	CZ	PHE		399	-30.677	81.813	28.181		40.34	6
		ATOM	1047	С	PHE		399	-25.658	78.754	30.976		33.48	6
IJ		ATOM	1048	0	PHE	В	399	-25.927	77.589	31.256		26.86	8
	35	ATOM	1049	N	LEU	В	400	-24.408	79.187	30.796	1.00	31.47	7
! <u></u> !		ATOM	1050	CA	LEU	В	400	-23.275	78.291	30.945	1.00	37.41	6
Ö		ATOM	1051	CB	LEU	В	400	-21.976	79.091	31.030	1.00	34.24	6
ıΠ		ATOM	1052	CG	LEU	В	400	-21.470	79.642	29.726	1.00	35.10	6
		ATOM	1053	CD1	LEU	В	400	-20.121	80.304	29.917	1.00	26.60	6
	40	MOTA	1054	CD2	LEU	В	400	-21.326	78.488	28.759	1.00	29.44	6
		ATOM	1055	С	LEU	В	400	-23.430	77.376	32.145	1.00	38.84	6
		ATOM	1056	0	LEU			-23.366	76.157	32.007		40.38	8
		ATOM	1057	N	LEU			-23.639	77.968	33.321		42.79	7
		ATOM	1058	CA	LEU			-23.801	77.181	34.537		43.48	6
	45	ATOM	1059	СВ	LEU			-24.226	78.067	35.712		44.73	6
	43		1060	CG	LEU			-24.226	77.303	37.012		51.39	
		ATOM											6
		ATOM	1061		LEU			-22.990	76,844	37.484		50.11	6
		ATOM	1062		LEU			-25.027	78.163	38,083		49.30	6
	50	ATOM	1063	C	LEU			-24.854	76.095	34.311		41.62	6
	50	MOTA	1064	0	LEU			-24.576	74.900	34.427		45.14	8
		ATOM	1065	N	ALA			-26.068	76.532	33.997		37.92	7
		ATOM	1066	CA	ALA			-27.177	75.631	33.752		29.90	6
		ATOM	1067	CB	ALA			-28.361	76.433	33.200		30.70	6
		ATOM	1068	Ç	ALA	В	402	-26.779	74.521	32.773	1.00	28,88	6
	55	ATOM	1069	0	ALA	В	402	-27.078	73.347	32.996	1.00	32.14	8
		ATOM	1070	N	PHE	В	403	-26.091	74.908	31.698	1.00	31.07	7
		ATOM	1071	CA	PHE	В	403	-25.655	73.970	30.673	1.00	29.90	6
		ATOM	1072	СВ	PHE			-24.847	74.715	29.607	1.00	27.03	6

	5	MOTA	1073	CG	PHE	В	403	-24.557	73.908	28.359	1.00	26.97	6
		MOTA	1074	CD1	PHE	В	403	-23.916	74.494	27.272	1.00	25.55	6
		ATOM	1075	CD2	PHE	В	403	-24.939	72.583	28.271	1.00	19.75	. 6
		MOTA	1076	CEl	PHE	В	403	-23.670	73.765	26.104	1.00	27.90	6
		MOTA	1077	CE2	PHE	В	403	-24.693	71.848	27.102	1.00	22.56	6
	10	MOTA	1078	CZ	PHE	В	403	-24.057	72,439	26.020	1.00	22.24	6
		ATOM	1079	С	PHE	В	403	24.810	72.902	31.329	1.00	28.82	6
		MOTA	1080	0	PHE	В	403	-25.092	71.726	31.205	1.00	26.00	8
		ATOM	1081	N	GLU	В	404	-23.776	73.335	32.037	1.00	30.25	7
		ATOM	1082	CA	GLU	В	404	-22.865	72.419	32.712	1.00	34.03	6
	15	ATOM	1083	CB	GLU	В	404	-21.835	73.215	33.527	1.00	39.45	б
		ATOM	1084	CG	GLU	В	404	-20.654	72.384	34.068	1.00	47.68	6
		MOTA	1085	CD	GLU	В	404	-19.750	73.129	34.996	1.00	54.02	6
		ATOM	1086	OE1	GLU	В	404	-19.372	74.290	34.701	1.00	57.27	8
		ATOM	1087	OE2	GLU	В	404	-19.369	72.555	36.048	1.00	63.85	8
	20	ATOM	1088	С	GLU	В	404	-23.645	71.509	33.642	1.00	36.01	6
		ATOM	1089	0	GLU	В	404	-23.470	70.292	33.640	1.00	38.64	8
		ATOM	1090	N	HIS	В	405	-24.492	72.131	34.458	1.00	29.56	7
		ATOM	1091	CA	HIS	В	405	-25.306	71.387	35.405	1.00	31.69	6
		ATOM	1092	CB	HIS	В	405	-26.245	72.324	36.173		33.75	. 6
Ō	25	ATOM	1093	CG	HIS	В	405	-25.536	73.185	37.163		34.75	6
ľU		ATOM	1094	CD2	HIS	В	405	-24.234	73.286	37.524		34.58	6
(I)		ATOM	1095	ND1	HIS			-26.223	74.101	37.969		32.43	7
4		MOTA	1096	CE1	HIS	В	405	-25.334	74.703.			36.15	6
1		ATOM	1097	NE2	HIS	В	405	-24.139	74.222	38.511	1.00	39.84	7
jub	30	ATOM	1098	С	HIS	В	405	-26.106	70.342	34.648		34.21	6
1		ATOM	1099	0	HIS	В	405	-26.087	69.160	35.006		37.06	8
āl 		ATOM	1100	N	TYR	В	406	-26.806	70.776	33.598	1.00	30.83	7
		ATOM	1101	CA	TYR	В	406	-27.592	69.853	32.796	1.00	28.85	6
لزا		ATOM	1102	СВ	TYR	В	406	-28.192	70.537	31.579	1.00	31.48	6
ĮŲ.	35	ATOM	1103	CG	TYR	В	406	-28.991	69.576	30.730	1.00	23.49	6
		ATOM	1104	CD1	TYR	В	406	-30.179	69.047	31.196	1.00	19.42	6
ů Ú		MOTA	1105	CE1	TYR	В	406	-30.893	68.128	30.441	1.00	23.80	6
100		ATOM	1106	CD2	TYR	В	406	-28.525	69.152	29.496	1.00	21.81	6
		ATOM	1107	CE2	TYR	В	406	-29.241	68.228	28.740	1.00	24.64	6
	40	MOTA	1108	CZ	TYR	В	406	-30.420	67.713	29.217	1.00	21.56	6
		ATOM	1109	OH	TYR	В	406	-31.120	66.802	28.480	1.00	24.96	8
		ATOM	1110	С	TYR	В	406	-26.697	68.725	32.304	1.00	24.24	6
		ATOM	1111	0	TYR	В	406	-27.155	67.609	32.110	1.00	27.08	8
		ATOM	1112	N	ILE	В	407	-25.422	69.056	32.084	1.00	25.76	7
	45	ATOM	1113	CA	ILE	В	407	-24.428	68.092	31.628	1.00	33.75	6
		ATOM	1114	CB	ILE	В	407	-23.090	68.778	31.274	1.00	34.23	6
		ATOM	1115	CG2	ILE	В	407	-21.959	67.774	31.230	1.00	32.46	6
		ATOM	1116	CG1	ILE	В	407	-23.214	69.514	29.936	1.00	43.30	6
		ATOM	1117	CD1	ILE	В	407	-23.655	68.612	28.804	1.00	40.40	6
	50	ATOM	1118	С	ILE	В	407	-24.191	67.004	32.658	1.00	39.03	6
		ATOM	1119	0	ILE	В	407	-24.178	65.806	32.343	1.00	35.18	8
		ATOM	1120	N	ASN	В	408	-23.990	67.425	33.894	1.00	37.25	7
		ATOM	1121	CA	ASN	В	408	-23.739	66.475	34.943	1.00	37.01	6
		ATOM	1122	СВ	ASN	В	408	-23.524	67.221	36.256		32.27	6
	55	ATOM	1123	CG	ASN	В	408	-22.296	68.137	36.202		33.56	6
		ATOM	1124	OD1	ASN	В	408	-21.194	67.696	35,823		31.99 [.]	8
		ATOM	1125	ND2	ASN	В	408	-22.478	69.397	36.604		31.23	7
		ATOM	1126	С	ASN	В	408	-24.876	65.453	35.036		38.14	6



	5	ATOM	1127	0	ASN	В	408	-24.624	64.253	35.105		42.16	8
		atom	1128	N	TYR	В	409	-26.122	65.924	35.003		35.62	7
		ATOM	1129	CA	TYR	В	409	-27.273	65.024	35.073	1.00	35.91	б
		MOTA	1130	CB	TYR	В	409	-28.597	65.787	34.931	1.00	34.41	6
		ATOM	1131	CG	TYR	В	409	-29.788	64.868	34.685	1.00	38.73	6
	10	MOTA	1132	CD1	TYR	В	409	-30.064	63.819	35.549	1,00	41.34	6
		ATOM	1133	CE1	TYR	В	409	-31.130	62.962	35.309	1.00	47.16	6
		ATOM	1134	CD2	TYR	В	409	-30.613	65.037	33.579	1.00	46.20	6
		ATOM	1135	CE2	TYR	В	409	-31.684	64.176	33.341	1.00	50.74	6
		ATOM	1136	CZ	TYR		409	-31.942	63.143	34.206	1.00	50.88	6
	15	ATOM	1137	ОН	TYR		409	-33.002	62.312	33.978		53.14	8
		ATOM	1138	C	TYR			-27.215	64.020	33.951		38.16	6
		ATOM	1139	ō	TYR		409	-27.558	62.857	34.111		41.83	8
		ATOM	1140	N	ARG		410	-26.824	64.528	32.796		42.25	7
		ATOM	1141	CA	ARG		410	-26.734	63.739	31.594		42.83	6
	20	ATOM	1142	CB	ARG		410	-26.350	64.646	30.441		36.83	6
	20	ATOM	1143		ARG		410	-27.440	65,585	29.945		34.32	6
		ATOM	1144	CD	ARG			-28.284	64.863	28.917		36.62	6
					ARG		410	-27.455	64.378	27.829		38.64	7
-		ATOM	1145	NE	ARG					26.824		35.73	6
j	25	ATOM	1146	CZ				-27.926	63.656			33.17	7
1	25	ATOM	1147		ARG			-29.234	63.379	26.782			
<i>]</i>		ATOM	1148		ARG			-27.095	63.227	25.868		32.70	7
j L		ATOM	1149	C	ARG			-25.688	62.664	31.733		46.67	6
i		ATOM	1150	0	ARG		410	-25.859	61.547	31.257		41.78	8
j L	••	ATOM	1151	N	LYS		411	-24.602	63.028	32.413		52.99	7
1	30	MOTA	1152	CA	LYS		411	-23.471	62.145	32.609		58.32	6
đ		MOTA	1153	CB	LYS		411	-23.684	61.249	33.833		64,99	6
ş		MOTA	1154	CG	LYS		411	-24.998	60.544	33.968		70.48	6
j		MOTA	1155	CD	LYS		411	-25.070	59.887	35.349		77.18	6
<i>,</i>		ATOM	1156	CE	LYS		411	-26.272	58.944	35.474		84.30	6
ì	35	ATOM	1157	NZ	LYS		411	-26.286	58.242	36.809		86.48	7
j		MOTA	1158	C	LYS		411	-23.172	61.341	31.365		56.66	6
		MOTA	1159	0	LYS			-23.574	60.199	31.210		55.47	8
•		ATOM	1160	N	HIS			-22.458	62.026	30.479	1.00		7
		MOTA	1161	CA	HIS			-22.019	61.474	29.214		48.67	6
	40	ATOM	1162	CB	HIS			-21.500	62.599			43.14	6
		ATOM	1163	CG	HIS	В	412	-22.559	63.501	27.784		41.36	6
		ATOM	1164	CD2	HIS	В	412	-23.159	64.603	28.299		35.44	6
		ATOM	1165	ND1	HIS	В	412	-23.163	63.290	26.539	1.00	38.19	7
		ATOM	1166	CE1	HIS	В	412	-24.076	64.238	26.353	1.00	34.75	6
	45	ATOM	1167	NE2	HIS	В	412	-24.090	65.034	27.396	1.00	35.52	7
		MOTA	1168	С	HIS	В	412	-20.894	60.596	29.644	1.00	46.35	6
		MOTA	1169	0	HIS	В	412	-20.218	60.892	30.644	1.00	42.73	8
		ATOM	1170	N	HIS	В	413	-20.708	59.469	28.973	1,00	48.92	7
		ATOM	1171	CA	HIS			-19.593	58.614	29.371	1.00	53.15	6
	50	ATOM	1172	СВ	HIS			-20.022	57.147	29.421	1.00	55.27	6
		ATOM	1173	CG	HIS			-20.814	56.823	30.636		58.77	6
		ATOM	1174		HIS			-22.019	56.223	30.822		61.65	6
		ATOM	1175		HIS			-20.360	57.159	31,921		60.31	7
		ATOM	1176		HIS			-21.267	56.758	32.809		63.01	6
	55	ATOM	1177		HIS			-22.270	56.193	32.171		62.93	7
		ATOM	1178	C	HIS			-18.426	58.862	28.438		53.19	6
		ATOM	1179	Ö	HIS			-17.975	57.996	27.699		54.93	8
		ATOM	1180	N	VAL			-17.970	60.113	28.521		53.77	7
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	5	ATOM	1181	CA	VAL	В	414	-16.845	60.674	27,788	1.00	51.06	6
		ATOM	1182	CB	VAL	В	414	-17.317	61,498	26.586	1.00	51.49	6
		ATOM	1183	CG1	VAL	В	414	-16.133	62.122	25.891	1.00	45,22	6
		ATOM	1184	CG2	VAL	В	414	-18.095	60.631	25.617	1.00	52.67	6
		ATOM	1185	С	VAL	В	414	-16.096	61.557	28.775	1.00	54.28	6
	10	ATOM	1186	0	VAL	B	414	-16.700	62.283	29.574	1.00	55.49	8
		ATOM	1187	N	THR			-14.770	61.466	28.742	1.00	56.28	7
		ATOM	1188	CA	THR			-13.919	62.234	29.669	1.00	57.83	6
		ATOM	1189	CB	THR			-12.488	61.686	29.658		59.64	6
		ATOM	1190	OG1	THR			-11.618	62.572	30.373		66.69	8
	15	ATOM	1191	CG2	THR			-11.988	61.483	28.227		59.42	6
		ATOM	1192	C	THR			-13.840	63.726	29,352	1.00	56.98	6
		ATOM	1193	Ö	THR			-13,987.	64.135	28.216	1.00		8
		ATOM	1194	N	HIS			-13.598	64.522	30.387		57.44	7
		ATOM	1195	CA	HIS			-13.485	65.972	30.237		57.34	6
	20	ATOM	1196	CB	HIS			-12.114	66.326	29.653		61.35	6
		ATOM	1197	CG	HIS		416	-10.968	65.931	30.513		69.78	6
		ATOM	1198	CD2	HIS		416	-9.930	65.082	30.307		71.42	6
		ATOM	1199	ND1	HIS			-10.756	66.480	31.787		72.49	7
, <u></u>		ATOM	1200	CE1	HIS			-9.631	65.973	32.281		75.50	6
٥	25	ATOM	1201	NE2	HIS			-9.120	65.131	31.408		73.91	7
Ü	23	ATOM	1202	C	HIS			-14.560	66.515	29.320		53.79	6
ij		ATOM	1203	0	HIS			-14.334	67.477	28.591		52.81	8
		ATOM	1203	N	PHE			-15.746	65.921	29.372		48.05	7
· • • •		ATOM	1205	CA	PHE			-16.841	66.329	28.505		47.99	6
	30	ATOM	1205	CB	PHE			-18.152	65.694	28.937		46.11	6
انسا	30	ATOM	1200	CG	PHE		417	-19.233	65.781	27.898		44.27	6
ii		ATOM	1207	CD1	PHE			-19.280	64.856	26.870		41.79	6
		ATOM	1209	CD2	PHE			-20.118	66.846	27.893		40.23	6
لدا		ATOM	1210	CE1	PHE			-20.118	64.959	25.869		44.30	6
	35	ATOM	1210	CE2	PHE			-21.072	66.955	26.893		36.80	6
IJ C	33	ATOM	1211	CZ	PHE			-21.119	66.016	25.866	-	40.69	6
Ü			1212	C			417	-17.020	67.833	28.423		46.69	6
ıÕ		ATOM	1213		PHE	В	417	-16.799	68.423	27.380		43.35	8
		ATOM ATOM	1214	0			417	-17.448	68.452	29.516		45.14	7
	40		1215	Ņ CA				-17.448	69.889	29.508		44.89	6
	40	ATOM	1217		TRP TRP				70.398			42.24	
		ATOM ATOM	1217	CB CG	TRP		418	-18.045 -18.162	70.396	30,898 31.018		47.11	6 6
		ATOM	1219		TRP			-19.298	72.699	30.620		46.98	6
		ATOM	1220		TRP			-18.953	74.061	30.850		48.94	
	45	ATOM			TRP			-20.560	72.401	30.086		45.23	6 6
	43		1221						72.778			46.24	
		ATOM	1222		TRP			-17.223		31.462			6
		ATOM	1223		TRP			-17.690	74.071	31.368		50.63	7
		ATOM	1224		TRP			-19.819	75.109	30.571		45.46	6
	50	ATOM	1225		TRP			-21.422	73.447	29.809		44.50	6
	50	ATOM	1226		TRP			-21.065	74.777	30.039		47.55	. 6
		ATOM	1227	С	TRP			-16.502	70.662	28.956		43.88	6
		ATOM	1228	0	TRP			-16.671	71.424	27.986		43.17	8
		ATOM	1229	N	PRO			-15.292	70.490	29.519		43.55	7
	<i>e e</i>	ATOM	1230	CD	PRO			-14.967	69.551	30.599		41.52	6
	55	ATOM	1231	CA	PRO			-14.120	71.223	29.011		41.48	6
		ATOM	1232	CB	PRO			-12.956	70.582	29.724		39.21	6
		ATOM	1233	CG	PRO			-13.521	69.703	30.774		39.25	6
		ATOM	1234	С	PRO	B	419	-14.035	71.067	27.479	1.00	36.28	6

	5	MOTA	1235	0	PRO	В	419	-13.690	72.001	26.754	1.00	37.08	8
		ATOM	1236	N	LYS			-14.330	69.871	26.976	1.00	35.96	7
		ATOM	1237	CA	LYS			-14.278	69.609	25.538		40.82	6
		ATOM	1238	СВ	LYS		420	-14.452	68.103	25.271		40.78	6
		ATOM	1239	CG	LYS		420	-13.349	67.214	25.830		48.62	6
	10		1240		LYS		420	-13.565	65.746	25.480		55.12	6
	10	ATOM		CD		-							6
		ATOM	1241	CE	LYS		420	-12.427	64.892	26.017	,	53.26	
		ATOM	1242	NZ	LYS		420	-12.582	63.457	25.608		52.69	7
		MOTA	1243	С	LYS			-15.414	70.374	24.875		40.29	6
		AŢOM	1244	0	LYS			-15.225	71.015	23.851		39.66	8
	15	ATOM	1245	N	LEU			-16.591	70.300	25.499		38.33	7
		ATOM	1246	CA	LEU	В	421	-17.796	70.958	25.001	1.00	37.60	6
		ATOM	1247	CB	LEU	В	421	-18.970	70.702	25.965	1.00	43.66	6
		ATOM	1248	CG	LEU	В	421	-20.370	70.850	25.418	1.00	46.50	6
		ATOM	1249	CD1	LEU	В	421	-20.529	69.890	24.255	1,00	45.15	б
	20	ATOM	1250	CD2			421	-21.383	70.538	26.486	1.00	51.31	б
		ATOM	1251	C	LEU			-17.547	72.452	24.823	1.00	39.59	6
		ATOM	1252	ō	LEU		421	-17.975	73.035	23.836	1.00	40.66	8
		ATOM	1253	N	LEU		422	-16.847	73.059	25.780		39.57	7
			1254		LEU		422	-16.534	74.478	25.715		38.63	6
Ö	25	ATOM		CA	LEU		422	-15.829	74.936	26.992		41.79	6
iù	25	ATOM	1255	CB									6
Ü		ATOM	1256	CG	LEU			-16.714	75.149	28.191		42.74	
. <u></u>		ATOM	1257	CD1			422	-15.911	75.685	29.360		42.89	6
,,,,,,		ATOM	1258		LEU			-17.783	76.162	27.813		39.27	6
 		ATOM	1259	С	LEU			-15.677	74.788	24.513		40.47	6
, e.d	30	ATOM	1260	0	LEU			-15.823	75.846	23.917		47.83	8
		ATOM	1261	N	MET			-14.789	73.853	24.168		34.27	7
		ATOM	1262	CA	MET	В	423	-13.907	74.019	23.024		35.25	6
		ATOM	1263	CB	MET	В	423	-12.920	72.858	22.922	1.00	32.56	6
į.j		ATOM	1264	CG	MET	В	423	-12.013	72.703	24.125	1.00	40.70	6
IJ	35	ATOM	1265	SD	MET	В	423	-10.345	72.007	23,784	1.00	47.65	16
inj		ATOM	1266	CE	MET	В	423	-10.770	70.538	22,761	1.00	47.16	6
Ü		ATOM	1267	C	MET		423	-14.709	74.100	21.738	1.00	35.13	6
ıÛ		ATOM	1268	0	MET		423	-14.341	74.807	20.803		29.85	8
		ATOM	1269	N	LYS		424	-15.811	73.361	21.704		31.56	7
	40	ATOM	1270	CA	LYS			-16.676	73.354	20.544		32.29	6
	70	ATOM	1271	CB	LYS			-17.783	72.316	20.736		30.56	6
		ATOM	1272	CG	LYS			-17.257	70.879	20.843		30.07	6
			1273		LYS			-16.444	70.510	19.611		33.22	6
		MOTA		CD				-15,795	69.136	19.706			
	45	ATOM	1274	CE	LYS							28.75	6
	45	MOTA	1275	NZ	LYS			-14.655	69.067	20.678		31.01	7
		ATOM	1276	С	LYS			-17.248	74.754	20,304		29.26	6
		MOTA	1277	0	LYS			-17.439	75.149	19.166		30.22	8
		MOTA	1278	N	VAL			-17.495	75.499	21.385		23.53	7
		ATOM	1279	CA	VAL	В	425	-18.014	76.852	21.278		28.91	6
	50	ATOM	1280	CB	VAL	В	425	-18.278	77.458	22.663	1.00	29.44	6
		ATOM	1281	CG1	VAL	В	425 .	-18.633	78.915	22.547	1.00	28.81	6
		ATOM	1282	CG2	VAL	В	425	-19.401	76.733	23.354	1.00	31.22	6
		ATOM	1283	С	VAL			-17.001	77.682	20.498	1.00	32.03	6
		ATOM	1284	0	VAL			-17.368	78.465	19.629		31.95	8
	55	ATOM	1285	N	THR			-15.721	77.508	20.827		33.61	7
	-	ATOM	1286	CA	THR			-14.645	78.221	20.137		30.76	6
	•	ATOM	1287	СВ	THR			-13.270	77.912	20.761		32.34	6
		ATOM	1288		THR			-13.073	78.697	21.941		33.07	8
			1200	001	Ank	٥	420	13.073	70.057	-4.271	1.00	55.57	3

	5	MOTA	1289	CG2	THR	В	426	-12.153	78.174	19.782	1.00	25.40	6
		ATOM	1290	С	THR	В	426	-14.677	77,742	18.706	1.00	32.53	6
		MOTA	1291	0	THR	В	426	-14.639	78.530	17.763	1.00	35.19	8
		ATOM	1292	N	ASP		427	-14.749	76.425	18.566	1.00	28.83	7
•		ATOM	1293	CA	ASP		427	-14.796	75.807	17.257		35.12	6
	10	ATOM	1294	СВ	ASP			-15.096	74.302	17.380		39.14	6
	.0	ATOM	1295	CG	ASP		427	-13.910	73.496	17.806		45.80	6
		ATOM	1296		ASP			-12.786	73.774	17.348		41.97	8
			1297	OD2	ASP			-14.064	72.517	18.583		50.06	8
		ATOM						-15.883				33.94	6
	1.5	ATOM	1298	C	ASP				76.502	16.429			
	15	MOTA	1299	0	ASP			-15.673	76.815	15.262		38.02	8
		MOTA	1300	N	LEU		428	-17.040	76.741	17.048		27.15	7
		MOTA	1301	CA	LEU			-18.154	77.388	16.367		29.99	6
		ATOM	1302	CB	LEU		428	-19.448	77.190	17.168		22.49	6
		ATOM	1303	CG	LEU		428	-20.086	75.818	17.089		25.54	6
	20	ATOM	1304	CD1	LEU	В	428	-21.282	75.729	18.012	1.00	20.60	6
		MOTA	1305	CD2	LEU	В	428	-20.509	75.564	15.651	1.00	17.24	6
		ATOM	1306	С	LEU	В	428	-17.901	78.863	16.103	1.00	28.94	6
		ATOM	1307	0	LEU	В	428	-18.328	79.388	15.076	1.00	31.26	8
		ATOM	1308	N	ARG	В	429	-17.213	79.524	17.035	1.00	27.64	7
O	25	ATOM	1309	CA	ARG	В	429	-16.894	80.937	16.883	1.00	28.13	6
ľU		MOTA	1310	СВ	ARG			-16.274	81.507	18.160		29.59	6
Ø		ATOM	1311	CG	ARG			-17.246	81.752	19.302		34.85	6
=		ATOM	1312	CD	ARG			-16.626	82.653	20.372		47.18	6
120		ATOM	1313	NE	ARG			-17.373	82.714	21.620		57.93	7
d	30	ATOM	1314	CZ	ARG			-18.632	83.124	21.716		63.62	6
4 Real	30	MOTA	1315		ARG			-19.263	83.579	20.622		60.71	7
9 1					ARG					22.916		62.38	7
		ATOM	1316					-19.238	83.130				
Į,		ATOM	1317	С	ARG			-15.930	81.146	15.728		29.81	6
Ы	26	ATOM	1318	0	ARG			-16.101	82.061	14.933	-	30.81	8
	35	MOTA	1319	N	MET			-14.908	80.295	15.670		29.64	7
4		ATOM	1320	CA			430	-13.920	80.343	14.614		34.72	6
٠Ď		ATOM	1321	CB			430	-12.939	79.192	14.763		34.97	6
		MOTA	1322	CG		В	430	-11.787	79.431	15.689		45.34	6
		MOTA	1323	SD		В	430	-10.729	80.768	15.158		52.55	16
	40	ATOM	1324	CE	MET	В	430	-10.070	80.157	13.610	1.00		6
		ATOM	1325	С	MET	В	430	-14.638	80.217	13.284	1.00	34.01	6
		MOTA	1326	0	MET	В	430	-14.395	80.996	12,385	1.00	37.29	8
		MOTA	1327	N	ILE	В	431	-15.516	79.217	13.176	1.00	29.99	7
		ATOM	1328	CA	ILE	В	431	-16.296	78.992	11.963	1.00	28.82	6
	45	ATOM	1329	CB	ILE	В	431	-17.391	77.929	12.177	1.00	27.39	6
		ATOM	1330	CG2	ILE	В	431	-18.314	77.841	10.959	1.00	23.87	6
		ATOM	1331	CG1	ILE			-16.784	76.555	12.449		25.56	6
		ATOM	1332	CD1				-17.826	75.464	12.498		17.29	6
		ATOM	1333	C	ILE			-16.953	80.288	11.538		29.49	6
	50	ATOM	1334	Ö	ILE			-16.837	80.725	10.398		24.19	8
		ATOM	1335	N	GLY			-17.657	80.904	12.474		25.25	7
		ATOM	1336	CA	GLY			-18.357	82.142	12.179		30.38	6
		ATOM	1337	CA	GLY			-17.395		12.179		32.75	6
									83.209				
	55	ATOM	1338	0	GLY			-17.531	83.740	10.637		36.38	8
	55 .	ATOM	1339	N.	ALA			-16.431	83.522	12.586		26.77	7
		ATOM	1340	CA	ALA			-15.407	84.514	12.299		26.48	6
		ATOM	1341	СВ	ALA			-14.240	84.338	13.253		19.90	6
		MOTA	1342	С	ALA	В	433	-14.905	84.433	10.867	1.00	30.73	6

	5	ATOM	1343	0	ALA	В	433	-14.849	85,432	10.171	1.00	31.60	8
		ATOM	1344	N	CYS	В	434	-14.534	83.246	10.439	1.00	33.22	7
		ATOM	1345	CA	CYS	В	434	-14.023	83.021	9.120	1.00	34.34	.6
		ATOM	1346	СВ			434	-13.553	81.661	9.226		35.20	6
		ATOM	1347	SG			434	-12.412	81.249	8.444		54.48	16
	10												
	10	ATOM	1348	C	CYS			-15.106	83.116	8.062		34.09	6
		ATOM	1349	0			434	-14.844	83.555	6.952		34.89	8
		MOTA	1350	Ŋ			435	-16.318	82.699	8.394	1.00	34.30	7
		ATOM	1351	ÇA	HIS	В	435	-17.395	82.762	7,443	1.00	35.44	6
		ATOM	1352	CB	HIS	В	435	-18.700	82.404	8.103	1.00	31.76	6
	15	ATOM	1353	CG	HIS	В	435	-19.845	82.425	7.149	1.00	32.03	б
		ATOM	1354	CD2			435	-20.483	81.419	6.515		28.61	6
	•	ATOM	1355		HIS			-20.345	83.600	6.607	1.00		7
		ATOM	1356		HIS			-21.241	83.293	5.672		33.27	6
	20	ATOM	1357		HIS			-21.341	81.977	5.605		31.57	7
	20	MOTA	1358	С			435	-17.528	84.152	6.878		32.74	6
		ATOM	1359	0			435	-17.842	84.326	5.715		32.87	8
		ATOM	1360	N	ALA	В	436	-17.315	85.121	7.758	1,00	31.01	7
		ATOM	1361	CA	ALA	В	436	-17.376	86.520	7.405	1.00	29.91	6
		MOTA	1362	CB	ALA	B	436	-17.008	87.352	8.618	1.00	21.23	6
ď	25	ATOM	1363	С	ALA	В	436	-16.393	86.782	6.266	1.00	33.86	6
IU		MOTA	1364	0	ALA	В	436	-16.734	87.398	5.257	1.00	36.10	8
ij		ATOM	1365	N			437	-15.162	86.307	6.448		35.19	7
į.		ATOM	1366	CA			437	-14.122	86.484	5.445		33.03	6
, e		ATOM	1367	CB			437	-12.882	85.688	5.847		35.31	6
<u>.</u>	30	ATOM	1368	OG			437	-11.855	85.824	4.879		44.99	8
4	30	ATOM	1369				437			4.108			
8 1				C				-14.642	85.993		1.00		6
		ATOM	1370	0			437	-14.700	86.730	3.127	1.00		8
IJ		ATOM	1371	N			438	-15.008	84.719	4.096		37.32	7
		ATOM	1372	CA	ARG			-15.526	84.068	2.908		39.30	6
لدا تا	35	ATOM	1373	СВ	ARG		438	-16.019	82.660	3.259		42.97	6
ij		MOTA	1374	CG	ARG		438	-14.910	81.673	3.590	1.00	41.72	6
Ď		MOTA	1375	CD	ARG	В	438	-14.044	81.488	2.356	1.00	45.23	6
189		ATOM	1376	NE	ARG	В	438	-14.781	80.936	1.235	1.00	45.66	7
		ATOM	1377	CZ	ARG	В	438	-14.482	81.175	-0.040	1.00	49.71	6
	40	MOTA	1378	NH1	ARG	В	438	-13.458	81.977	-0.347	1.00	50.91	7
		ATOM	1379	NH2	ARG	В	438	-15.219	80.619	-1.002	1.00	46.86	7
		ATOM	1380	С	ARG			-16.659	84.859	2.287		42.37	6
		ATOM	1381	Ō	ARG			-16.841	84.832	1.072		40.58	8
		ATOM	1382	N	PHE			-17.417	85.575	3.117		42.25	7
	45	ATOM	1383	CA	PHE			-18.531	86.354	2.614		42.81	6
	43												
		ATOM	1384	СВ	PHE			-19.198	87.132	3.731		42.18	6 .
		ATOM	1385	CG	PHE			-20.487	87.769	3.323		42.48	6
		ATOM	1386		PHE			-21.535	86.981	2.912		47.09	6
		ATOM	1387		PHE			-20.638	89.141	3.334		39.76	6
	50	MOTA	1388		PHE			-22.735	87.543	2.527	1.00	49.17	6
		ATOM	1389	CE2	PHE	В	439	-21.851	89.717	2.944	1.00	45.10	6
		ATOM	1390	CZ	PHE	В	439	-22.901	88.911	2.538	1.00	46.36	6
		ATOM	1391	С	PHE	В	439	-18.016	87.319	1.581	1.00	44.79	6
		MOTA	1392	0	PHE			-18.514	87.354	0.465		40.26	8
	55	ATOM	1393	N	LEU			-17.021	88.117	1.987		42.77	7
		ATOM	1394	CA	LEU			-16.415	89.115	1.109		42.96	6
		ATOM	1395	СВ	LEU			-15.169	89.718	1.768		37.19	6
		ATOM	1396		LEU			-15.477	90.588	2.967		36.97	6
						~		20.3//	50.500	<u> </u>	2.00	J	

	5	MOTA	1397	CD1	LEU	В	440	-14.219	91.352	3.402	1.00	33.65	6
		ATOM	1398	CD2	LEU	В	440	-16.577	91.591	2.574	1.00	35.42	б
		MOTA	1399	С	LEU	В	440	-16.099	88.561	-0.273	1.00	45.47	6
		MOTA	1400	0	LEU	В	440	-16.631	89.059	-1.265	1.00	52.48	8
		MOTA	1401	N	HIS	В	441	-15.238	87.549	-0.345	1.00	49.15	7
	10	ATOM	1402	CA	HIS	В	441	-14.929	86.956	-1.632	1.00	54.76	6
		ATOM	1403	CB	HIS	В	441	-14.150	85.700	-1.448	1.00	56.68	6
		ATOM	1404	CG	HIS	В	441	-12.713	85.934	-1.230	1.00	62.73	6
		ATOM	1405	CD2	HIS	В	441	-11.602	85.418	-1.812	1.00	65.73	6
		ATOM	1406	ND1	HIS	В	441	-12.245	86.850	~0.273	1.00	66.01	7
	15	ATOM	1407	CE1	HIS	В	441	-10.916	86.847	-0.309	1.00	65.55	6
		ATOM	1408	NE2	HIS	В	441	-10.512	85.993	-1.228	1.00	60.09	7
		ATOM	1409	С	HIS	В	441	-16.217	86.633	-2.301	1.00	55.93	6
		ATOM	1410	0	HIS	В	441	-16.418	86.938	-3.465	1.00	57.33	8
		ATOM	1411	N	MET	В	442	-17.106	85.997	-1.553	1.00	57.81	7
	20	ATOM	1412	CA	MET	В	442	-18.399	85.652	-2.106	1.00	59.11	6
		ATOM	1413	СВ	MET	В	442	-19.340	85.162	-1.008	1.00	55.93	6
		MOTA	1414	CG	MET	В	442	-18.991	83.796	-0.456	1.00	58.52	6
		ATOM	1415	SD	MET	В	442	-20.310	82.994	0.505	1.00	60.99	16
		ATOM	1416	CE	MET	В	442	-20.525	84.203	1.827	1.00	52.61	6
ō	25	ATOM	1417	С	MET	В	442	-18.991	86.879	-2.785	1.00	60.31	6
IV		ATOM	1418	0	MET	В	442	-19.646	86.778	-3.817	1,00	58.18	8
IX)		ATOM	1419	N	LYS	В	443	-18.731	88.045	-2.213	1.00	61.45	7
1		ATOM	1420	CA	LYS	В	443	-19.267	89.268	-2.758		64.90	6
الوظ		ATOM	1421	CB	LYS			-19.182	90.358	-1.704	1.00	64.40	6
įb	30	ATOM	1422	CG	LYS	В	443	-20.160	91.449	-1.982	1.00	69.12	6
1		ATOM	1423	CD	LYS	В	443	-19.763	92.673	-1.306	1.00	71.14	6
£:		MOTA	1424	CE	LYS	В	443	-20.508	92.993	-0.491	1.00	73.43	6
		ATOM	1425	NZ	LYS	В	443	-20.174	94.242	0.151	1.00	67.97	7
IJ		ATOM	1426	С	LYS	В	443	-18.528	89.704	-4.020	1.00	67.29	6
	35	ATOM	1427	0	LYS	В	443	-18.979	90.586	-4.731	1.00	67.90	8
ij		MOTA	1428	N	VAL	В	444	-17.383	89.075	-4.285	1.00	66.57	7
i D		MOTA	1429	CA	VAL	В	444	-16.589	89.418	-5.455	1.00	64.76	6
184		MOTA	1430	CB	VAL	В	444	-15.097	89.568	-5.082	1.00	62.76	6
		ATOM	1431	CG1	VAL	В	444	-14.269	89.857	-6.298	1.00	64.00	- 6
	40	ATOM	1432	CG2	VAL	В	444	-14.905	90.678	-4.042	1.00	59.27	6
		ATOM	1433	С	VAL	В	444	-16.800	88.397	-6.569	1.00	68.61	6
		ATOM	1434	0	VAL	В	444	-16.968	88.774	-7.729	1.00	70.60	. 8
		ATOM	1435	N	GLU	В	445	-16.812	87.118	-6.219	1.00	70.71	7
		ATOM	1436	CA	GLU	В	445	-16.951	86.033	-7.197	1.00	71.45	6
	45	MOTA	1437	CB	GLU	В	445	-16.169	84.809	-6.712	1.00	72.36	6
		ATOM	1438	CG	GLU	В	445	-14.736	85.090	-6.392	1.00	40.00	6
		ATOM	1439	CD	GLU	В	445	-13.998	83.890	-5.851	1.00	40.00	6
		ATOM	1440	OE1	GLU	В	445	-14.587	82.798	-5.665	1.00	40.00	8
		ATOM	1441	OE2	GLU	В	445	-12.775	83.995	-5.580	1,00	40.00	8
	50	MOTA	1442	С	GLU	В	445	-18.375	85.574	-7.422	1.00	71.46	6
		MOTA	1443	0	GLU	В	445	-18.605	84.542	-8.064	1.00	73.02	8
		ATOM	1444	N	CYS	В	446	-19.328	86.333	-6.900	1.00	71.12	7
		ATOM	1445	CA	CYS	В	446	-20.694	85.942	-7.062	1.00	70.83	6
		ATOM	1446	CB	CYS	В	446	-21.196	85.230	-5.784	1.00	71.05	6
	55	ATOM	1447	SG	CYS	В	446	-20.296	83.720	-5.349	1.00	72.83	16
		ATOM	1448	С	CYS			-21.563	87.135	-7.386		71.91	6
		ATOM	1449	0	CYS			-21.307	88.244	-6.911		72.06	8
		ATOM	1450	N	PRO	В	447	-22.550	86.928	-8.256	1.00	73.12	7

	5	ATOM	1505	0	PRO	В	453	-29.700	90.206	3.345	1.00.5	54.17	8
		ATOM	1506	N	LEU	В	454	-31.807	89.458	3.631	1.60 5	31.21	7
		ATOM	1507	CA			454	-31.538	88.945	4.948	1.00		6
		ATOM	1508	CB			454	-32.550	87.858	5.330	1.00 4	-	6
		ATOM	1509	CG	LEU		454	-32.347	87.412	6.748	1.00 4		6
	10	ATOM	1510	CD1				-31.987	88.589	7.631	1.00		6
	.0	ATOM	1511	CD2	LEU			-33.590	86.732	7.239	1.00	_	6
		ATOM	1512	C	•		454	-30.099	88.443	4.928	1,00		6
		ATOM	1513	0			454	~29.323	88.774	5.812	1.00		8
			1514		PHE		455	-29.716	87.707	3.885		39.29	7
	1.5	ATOM	1514	N				-28.347	87.204	3.770	1.00 4		6
	15	ATOM		CA	PHE		455	-28.132	86.536	2.418	1.00 4		6
		ATOM	1516	CB	PHE		455				1.00 \$		
		ATOM	1517	CG	PHE		455	-26.813	85.836	2.292			6
		ATOM	1518	CD1	PHE		455	-26.437	84.915	3.247	1.00 5		6
	20	ATOM	1519	CD2	PHE		455	-25.949 ´		1.236	1.00 5		6
	20	ATOM	1520	CE1	PHE		455	-25.225	84.234	3.153	1.00 5		6
		ATOM	1521	CE2	PHE		455	-24.720	85.409	1.134	1.00		6
		ATOM	1522	CZ	PHE		455	-24.360	84.481	2.103	1.00 5		6
. 1779		ATOM	1523	e			455	-27.400	88.386	3.923	1.00 4		6
ij	0.5	ATOM	1524	0			455	-26.657	88,450	4.889	1.00 3		8
Û	25	MOTA	1525	N			456	-27.439	89.303	2.949	1.00 4		7
11		ATOM	1526	CA			456	-26.597	90.503	2.947	1.00 4		6
ΙŪ		ATOM	1527	CB	LEU			-27.001	91.440	1.802		50.20	6
≠ '√'		ATOM	1528	CG			456	-26.439	91.155	0,432	1.00 5		6
占	20	ATOM	1529	CD1				-27.064	92.082	-0.591	1.00 5		6
J	30	ATOM	1530		LEU			-24.920	91.345	0.494	1.00 5		6
#I		ATOM	1531	e	LEU			-26.689	91.245	4.264	1.00 4		6
 (3		ATOM	1532	0	LEU		456	-25.678	91.540	4.886	1.00 4		8
لرا		ATOM	1533	N	GLU		457	-27.990	91.268	4.265	1.00		7
lil		ATOM	1534	CA	GLU		457	-28.288	92.016	5.497	1.00 4		6
i L	35	ATOM	1535	С	GLU		457	-27.434	91.452	6.628	1.00		6
Ū		MOTA	1536	0	GLU		457	-26.754	92.223	7.339	1.00		8
Ē		ATOM	1537	CB	GLU		457	-29.769	91.879	5.855	1.00 5		6
		ATOM	1538	CG	GLU		457	-30.208	92.849	6.954	1.00 2		6
	40	ATOM	1539	CD	GLU			-31.646	93.338	6.782	1.00 2		6
	40	MOTA	1540	OE1		_		-32.351	92.932	5.779	1.00 2		8
		ATOM	1541					-32.157		7.638	1.00 2		8
		ATOM	1542	N	VAL			-27.428	90.413	7.281	1.00 4		7
		ATOM	1543	CA	VAL			-26.706	89.739	8.351	1.00 4		6
		ATOM	1544	CB	VAL			-27.075	88.255	8.432	1.00 4		6
	45	ATOM	1545		VAL			-26.440	87.623	9.646	1.00 4		6
		ATOM	1546		VAL			-28.562	88.086	8.474	1.00 4		6
		ATOM	1547	С	VAL			-25.190	89.822	8.311	1.00 4		6
		MOTA	1548	0	VAL			-24.551	90,179	9.303	1.00 4		8
		MOTA	1549	N	PHE			-24.605	89.488	7.180	1.00 4		7
	50	MOTA	1550	CA	PHE			-23.165	89.480	7.077	1.00 4		6
		ATOM	1551	CB	PHE			-22.747	88.457	6.065	1.00 4		б
		ATOM	1552	CG	PHE			-23.167	87.116	6.441	1.00 4		6
		ATOM	1553	CD1				-24.494	86.750	6.368	1,00 4		6
		MOTA	1554		PHE			-22.263	86.286	7.009	1.00 3		6
	55	MOTA	1555		PHE			-24.892	85.540	6,889	1.00 4		6
		MOTA	1556		PHE			-22.649	85.091	7.527	1.00 3		6
		ATOM	1557	CZ	PHE			-23.967	84.711	7,455	1.00 3		6
		ATOM	1558	C	PHE	В	459	-22.627	90.758	6.623	1.00 5	2.71	6

	5	ATOM	1559	0	PHE	В	459	-21.414	91.050	6.791	1.00	51.34	8
	-	ATOM	1560	N	GLU	В	460	-23.489	91.531	5.976	1.00	62.92	7
		ATOM	1561	CA	GLU			-22.953	92.741	5.533	1.00	69.33	6
		ATOM	1562	CB	GLU			-23.851	93.487	4.505		72.95	6
		ATOM	1563	CG	GLU			-22.917	94.002	3.412		78.35	6
	10	ATOM	1564	CD	GLU			-22.908	95.480	3.256		82.97	6
	10	ATOM	1565	OE1				-23.257	96.213	4.217		88.28	8
		ATOM	1566	OE2	GLU			-22.524	95.977	2.167		84.80	8
			1567	C	GLU			-22.790	93.576	6.786	1.00		6
		ATOM			GLU			-23.471	93.370	7.802	1.00	74.51	8
	1.5	ATOM	1568	0									
	15	ATOM	1569	N	ASP			-21.796	94.449	6.696		78.50	7
		MOTA	1570	CA	ASP			-21.401	95.328	7.701		84.19	6
		MOTA	1571	СВ	ASP			-20.182	96.032	7.125		85.82	6
		ATOM	1572	CG	ASP			-19.261	95.066	6.463		89.62	6
		MOTA	1573		ASP			-19.670	93.929	5.982		93.00	8
	20	MOTA	1574		ASP			-18.084	95.361	6.387		93.04	8
		ATOM	1575	C	ASP			-22.540	96.291	8.012		86.80	6
		MOTA	1576	0	ASP			-23.063	96.176	9.139		88.70	8
		ATOM	1577	OXT	ASP	В	461	-22.962	97.048	7.098	1.00	88.70	8
)		TER											
j	25	ATOM	4002	C1	т3	J	1	20.152	36.643	29.561		22.34	6
ļ		MOTA	4003	C2	T3	J	1	19.021	41.567	29.283	1.00	21.84	6
į		MOTA	4004	C3	тЗ	J	1	18.880	37.086	29.226	1.00	23.43	6
		ATOM	4005	C4	T3	J	1	18.249	42.606	28.776	1.00	22.31	6
į		ATOM	4006	C5	т3	J	1	18.747	38.372	28.866	1.00	24.83	6
	30	MOTA	4007	C6	T3	J	1	17.938	43.621	29.664	1.00	25.16	6
•		MOTA	4008	C7	Т3	J	1	19.799	39.296	28.753	1.00	24.65	6
		ATOM	4009	C8	т3	J	1	18,330	43.594	31.028	1.00	21.93	6
		MOTA	4010	C9	T3	J	1	21.101	38.940	29.075	1.00	25.09	6
i !		ATOM	4011	C10	Т3	J	1	19.063	42.558	31.465		23.66	6
	35	ATOM	4012	C11	Т3	J	1	21.254	37.600	29.456		23.12	6
		ATOM	4013	C12	Т3	J	1	19.459	41.490	30.621	1.00	19.67	6
!		ATOM	4014	C13		J	ĩ	20.370	35.228	30.075	,	18.97	6
i		MOTA	4015	C15		J	1	21.549	34.480	29.455		19.32	б
		ATOM	4016	C17		J	1	21.535	33.003	29.710		19.02	6
	40	ATOM	4017	11	Т3	J	1	16.898	39.029	28.661		25.29	53
		ATOM	4018	12	Т3	J	ī	17.058	45.327	29.154		26.49	53
		ATOM	4019	13	Т3	J	1	22.763	40.262	29.169	-	25.67	53
		ATOM	4020	N1	T3	J	1	21.800	34.859	28.024		15.12	7
		ATOM	4021	01	т3	J	1	17.934	44.682	31.806		21.79	8
	45	ATOM	4022	02	т3	J	1	19.432	40.560	28.362		22.05	8
		ATOM	4023	03	T3	J	1	21.911	32.260	28.776		20.38	8
		ATOM	4024	04	т3	J	1	21.137	32.622	30.840		20.16	8
		TER	1021	04	13	•	•	21.13,	32.022	30.040	1.00	20.10	v
		ATOM	4025	C1	Т3	K	1	-28.131	75.928	7.543	1 00	22.34	6
	50	ATOM	4026	C2	T3	K	1	-24.676	77.673	4.318		21.84	6
	50		4020	C3	T3	K.	i	-28.490	76.351	6.201		23.43	6
		ATOM										22.31	6
		ATOM	4028	C4	T3	K	1	-24.217	77.893	2.989			
		ATOM	4029	C5 ·	T3	K	1	-27.485	76.499	5.233		24.83	6
	55	MOTA	4030	C6	T3	K	1	-23.545	79.124	2.700		25.16	6
	در	ATOM	4031	C7	T3	K	1	-26.132	76.227	5.581		24.65	6
		ATOM	4032	C8	T3	K	1	-23.382	80.104	3.772		21.93	6
		ATOM	4033	C9	T3	K	1	-25.685	75.833	6.855		25.09	6 6
		ATOM	4034	C10	Т3	K	1	-23.867	79.823	5.042	1.00	23.66	9

	5	ATOM	4035	C11	T3	K	. 1	-26.708	75.670	7.834	1.00 23.12	6
		MOTA	4036	C12	T3	K	1	-24.521	78.610	5.376	1.00 19.67	6
		ATOM	4037	C13	т3	K	1	-29.211	75.830	8.626	1.00 18.97	6
		ATOM	4038	C15	TЗ	K	1	-29.181	74.567	9.488	1.00 19.32	6
		ATOM	4039	C17	T3	K	1	-30.440	74.343	10.264	1.00 19.02	6
	10	ATOM	4040	11	T3	K		-27.868	77.342	3.316	1.00 25.29	53
	••	ATOM	4041	12	Т3	ĸ	ī	-22.732	79.619	0,850	1.00 26.49	53
		ATOM	4042	13	T3	K	ī	-23.602	75.792	7.334	1.00 25.67	53
			4042	N1	T3	K	1	-28.680	73.732	8.762	1.00 25.07	7
		ATOM	4043						81.265	3.443	1.00 13.12	8
	1.0	ATOM		01	T3	K	1	-22.742				
	15	ATOM	4045	02	T3	K	1	-25.267	76,388	4.595	1.00 22.05	8
		ATOM	4046	03	T3	K	1	-30.816	73.159	10.382	1.00 20.38	8
		ATOM	4047	04	Т3	K	1	-31.028	75.359	10.729	1.00 20.16	8
		TER										_
		ATOM	1	С			686	13.868	40.176	48.888	1.00 40.00	6
	20	ATOM	2	0			686	13.914	40.120	47.639	1.00 40.00	8
		ATOM	3	N			686	14.374	42.245	50.489	1,00 40.00	7
		ATOM	4	CA	LYS	X	686	14.937	41.070	49.710	1.00 40.00	6
		MOTA	5	N	HIS	X	687	13.038	39.527	49.705	1.00 40.00	7
		ATOM	6	CA	HIS	X	687	11.891	38.518	49.521	1.00 40.00	6
Ð	25	ATOM	7	СВ	HIS	Х	687	10.639	39.000	50.212	1.00 40.00	6
ľV		ATOM	8	CG	HIS	X	687	10.981	39.526	51.563	1.00 40.00	6
D		ATOM	9	CD2	HIS	х	687	11.021	38.908	52.753	1.00 40.00	6
j.L		ATOM	10	ND1	HIS			11.354	40.844	51.754	1.00 40.00	. 7
100		ATOM	11	CE1				11.614	40.994	53.034	1.00 40.00	6
j sat	30	ATOM	12		HIS			11.422	39.847	53.646	1.00 40.00	7
4	50	ATOM	13	C			687	11.183	38.108	48.208	1.00 40.00	6
Εl		ATOM	14	0	HIS			11.674	38.361	47.094	1.00 40.00	8
		ATOM	15	N	LYS			10.064	37.458	48.649	1.00 40.00	7
ليبا		ATOM	16	CA	LYS			8.911	36.858	47.931	1.00 40.00	6
لدا	35		17	CB	LYS			8.292	37.850	46.968	1.00 40.00	6
	33	ATOM			LYS					47.161	1.00 40.00	6
١Ď		ATOM	18	С				9.246	35.573		1.00 40.00	
ij		ATOM	19	0	LYS			9.319	34.473	47.722		8 7
		ATOM	20	N			689	9.426	35.754	45.865	1.00 40.00	
	40	ATOM	21	CA			689	9.661	34.640	44.924	1.00 40.00	6
	40	ATOM	22	СВ	ILE			9.731	35.167	43.498	1.00 40.00	6
		ATOM	23		ILE			9.638	34.053	42.453	1.00 40.00	6
		ATOM	24		ILE			8.597	36.141	43.176	1.00 40.00	6
		ATOM	25	• • •	ILE			8.250	36.183	41.688	1.00 40.00	6
		ATOM	26		ILE			10.954	33.869	45.228	1.00 40.00	6
	45	ATOM	27	0	ILE			10.920	32.657	45.511	1.00 40.00	8
		ATOM	28	N	LEU	X	690	12.065	34.579	45.140	1.00 40.00	7
		ATOM	29	CA	LEU	Χ	690	13.391	33.996	45.397	1.00 40.00	6
		ATOM	30	CB	LEU	X	690	14.349	35.043	45.892	1.00 40.00	6
		ATOM	31	CG	LEU	X	690	14.450	36.168	44.906	1.00 40.00	6
	50	ATOM	32	CD1	LEU	Х	690	15.397	37.261	45.363	1.00 40.00	6
		ATOM	33	CD2	LEU	Х	690	14.940	35.695	43.540	1.00 40.00	6
		ATOM	34	С	LEU			13.271	32.999	46.466	1.00 40.00	6
		ATOM	35	Ō	LEU			13.633	31.832	46.315	1.00 40.00	8
		ATOM	36	N	HIS			12.773	33.472	47.541	1.00 40.00	7
	55	ATOM	37	CA	HIS			12.557	32.559	48.569	1.00 40.00	6
		ATOM	38	CB	HIS			11.729	33.212	49.658	1.00 40.00	6
		ATOM	39	CG	HIS			12.588	34.116	50.564	1.00 40.00	6
		ATOM	40		HIS			13.648	33.852	51.385	1.00 40.00	6
		AIOM	40	CDZ	112	^	091	13.040	33.032	31.303	1.00 40.00	U

	5	ATOM	41	NDl	HIS	X	691	12.359	35.484	50.669	1.00	40.00	7
		ATOM	42	CE1	HIS	X	691	13.242	35.991	51.513	1.00	40.00	6
		ATOM	43	NE2	HIS	X	691	14.016	35.031	51.949	1.00	40.00	7
		ATOM	44	С	HIS	X	691	11.954	31.331	47.861	1.00	40.00	6
		ATOM	45	0	HIS	X	691	12.505	30.240	47.882	1.00	40.00	8
	10	ATOM	46	N	ARG	X	692	10.839	31.494	47.167	1.00	40.00	7
		ATOM	47	CA	ARG	X	692	10.169	30.333	46.518	1.00	40.00	6
		ATOM	48	СВ	ARG	X	692	9.118	30.800	45.517	1.00	40.00	6
		ATOM	49	С	ARG			11.153	29.402	45.752	1.00	40.00	6
		ATOM	50	0	ARG	X	692	11.030	28.168	45.779	1.00	40.00	8
	15	ATOM	51	N	LEU	Х	693	12.117	30.000	45.072	1.00	40.00	7
		ATOM	52	CA	LEU			13.078	29.252	44.226		40.00	6
		ATOM	53	СВ	LEU			13.784	30.210	43.274		40.00	6
		ATOM	54	CG	LEU			12.796	31.012	42.432		40.00	6
		ATOM	55		ĻEU			13.479	31.969	41.458		40.00	6
	20	ATOM	56		LEU			11.884	30.126	41.579		40.00	6
		ATOM	57	C	LEU			14.143	28.531	45.054		40.00	6
		ATOM	58	0	LEU			14.702	27.508	44.633		40.00	8
		ATOM	59	N	LEU			14.400	29.079	46.209		40.00	7
		ATOM	60	CA	LEU			15.407	28.538	47.115		40.00	6
Ð	25	ATOM	61	СВ	LEU			15.871	29.626	48.084		40.00	6
IŪ		ATOM	62	CG	LEU			16.692	30.716	47.404		40.00	6
Ü		ATOM	63	CD1				17.279	31.724	48,391		40.00	6
4		ATOM	64	CD2				17.879	30.156	46.619		40.00	6
1		ATOM	65	C	LEU			14.837	27.404	47.957		40.00	6
ab	30	ATOM	66	0	LEU			15.555	26.747	48.716		40.00	8
, • [~ *	ATOM	67	N	GLN			13.554	27.157	47.809		40.00	7
\$1		ATOM	68	ĊA	GLN			12.883	26.188	48.685		40.00	6
		ATOM	69	C	GLN			12.423	24.910	47.977		40.00	6
IJ		ATOM	70	ō	GLN			12.309	23.845	48.598		40.00	8
IJ	35	ATOM	71	СВ	GLN			11.681	26.858	49.322		40.00	6
		ATOM	72	CG	GLN			12.074	28.125	50.080		20.00	6
Q		ATOM	73	CD	GLN			10.899	28.768	50.801		20.00	6
Ü		ATOM	74	OE1	GLN			9.772	28.296	50.671		20.00	8
		ATOM	75	NE2	GLN			11.092	29.828	51.560		20.00	7
	40	ATOM	76	N	ASP			12.155	25.020	46.714		40.00	7
	. •	ATOM	77	CA	ASP			11.698	23.885	45.910		40.00	6
		ATOM	78	СВ	ASP			11.450	24.400	44.497		40.00	6
		ATOM	79	CG	ASP			10.782	23.411	43.548		40.00	6
		ATOM	80		ASP			10.550	22.203	43.920		40.00	8
	45	ATOM	81		ASP			10.449	23.804	42.362		40.00	8
		ATOM	82	С	ASP			12.774	22.806	45.876		40.00	6
		ATOM	83	0	ASP			13.937	23.077	45.562		40.00	8
		ATOM	84	N	SER			12.370	21.610	46.213		40.00	7
		ATOM	85	CA	SER			13.258	20.453	46,128		40.00	6
	50	ATOM	86	СВ	SER			12.685	19.371	47.049		40.00	6
		ATOM	87	OG	SER			12.535	19.899	48.374		40.00	8
		ATOM	88	c.	SER			13.329	20.130	44.613		40.00	6
		ATOM	89	0	SER			14.247	20.573	43.914		40.00	8
		ATOM	90	Ŋ	SER			12.355	19.357	44.183		40.00	7
	55	ATOM	91	CA	SER			11.985	19.100	42.752		40.00	6
		ATOM	92	СВ	SER			11.693	20.417	42.036		40.00	6
		ATOM	93	OG	SER			10.510	21.000	42.577		40.00	8
		ATOM	94	C.	SER			12.887	18.340	41.758		40.00	6
						••							-

	5	ATOM	95	0	SER	X	698	13.253	17.158	42.026	1.00	40.00	8
		ATOM	96	OXT	SER	X	698	13.131	18.976	40.714	1.00	40.00	8
		TER											
		ATOM	1	СВ	T.YS	v	688	-33.793	96.885	6.491	1 00	40.00	6
		ATOM	2	C			688	-35.002	95.370	8.130		40.00	6
	10		3										
	10	ATOM		0	LYS			-36.027	95.520	8.779		40.00	8
		MOTA	4	N			688	-32.717	96.619	8.695		40.00	7
		MOTA	5	CA			688	-34.040	96.591	7.954		40.00	6
		MOTA	6	N	ILE	Y	689	-34.578	93.781	6.908	1.00	40.00	· 7
		AŢOM	7	CA	ILE	Y	689	-35.862	93.106	7.268	1.00	40.00	б
	15	ATOM	8	ÇВ	ILE	Y	689	-35.971	91.759	6.572	1.00	40.00	6
		ATOM	9	CG2	ILE	Y	689	-37.270	91.077	6.932	1.00	40.00	6
		ATOM	10	CG1	ILE		689	-35.917	91.937	5.062		40.00	6
		ATOM	11	CD1	ILE		689	-36.341	90.691	4.289		40.00	6
							689			8.780		40.00	
	20	ATOM	12	С				-36.032	92.870				6
	20	ATOM	13	0			689	-36.913	93.446	9.442		40.00	8
		ATOM	14	N			690	-35.019	92.834	9.787		40.00	7
		ATOM	15	CA			690	-34.956	92.320	11.163		40.00	6
		ATOM	16	CB	LEU	Y	690	-33.528	92.432	11.697	1.00	40.00	6
		ATOM	17	CG	LEU	Y	690	-32.516	91.647	10.864	1.00	40.00	6
Ð	25	ATOM	18	CD1	LEU	Y	690	-31.087	91.764	11.397	1.00	40.00	6
ľŪ		ATOM	19	CD2	LEU	Y	690	-32.819	90.148	10.812	1.00	40.00	6
Ü		ATOM	20	С			690	-35.899	93.123	12.065		40.00	6
		ATOM	21	Ō			690	-36.570	92.492	12.928		40.00	8
\ <u></u>		ATOM	22	N			691	-36.039	94.731	11.373		40.00	7
a.b.	30	ATOM	23	CA	HIS			-36.634	94.923	12.683		40.00	6
1	30				HIS					12.003		40.00	6
51		ATOM	24	CB				-36.854	96.383				
		ATOM	25	CG	HIS			-35.610	97.153	13.078		40.00	6
į,		ATOM	26	CD2	HIS			-34.757	97.640	12.159		40.00	6
1.1		ATOM	27		HIS			-35.129	97.579	14.319		40.00	7
	35	ATOM	28		HĮS			-34.039	98.290	14.122		40.00	6
t er .f5		ATOM	29	NE2				-33.786	98.346	12.815	1.00	40.00	. 7
ů ů		MOTA	30	С	HIS	Y	691	-37.972	94.287	12.756	1.00	40.00	6
1		ATOM	31	0	HIS	Y	691	-38.240	93.417	13.545	1.00	40.00	8
•		ATOM	32	N	ARG	Y	692	-38.265	94.388	11.505	1.00	40.00	7
	40	ATOM	33	CA	ARG	Y	692	-39.577	93.869	11.276	1.00	40.00	6
		ATOM	34	СВ	ARG	Y	692	-39.653	93.692	9.795	1.00	40.00	6
		ATOM	35	CG	ARG			-40.759	92.764	9.329		40.00	6
		ATOM	36	CD	ARG			-40.618	92.422	7.848		40.00	6
		ATOM	37	NE	ARG			-41.849	92.641	7.091		40.00	7
	45	ATOM	38	CZ	ARG			-41.898	92.758	5.763		40.00	6
	73												
		ATOM	39		ARG			-40.784	92.695	5.024		40.00	7
		MOTA	40		ARG			-43.034	92.940	5.080		40.00	7
		ATOM	41	С	ARG			-39.941	92.547	11.995		40.00	6
		ATOM	42	0	ARG			-41.001	92.440	12.649		40.00	8
	50	ATOM	43	N	LEU	Y	693	-39.095	91.576	11.816		40.00	7
}		ATOM	44	CA	LEU	Y	693	-39.230	90.232	12.395	1.00	40.00	6
1		ATOM	45	CB	LEU	Y	693	-38.362	89.337	11.615	1.00	40.00	6
		ATOM	46	CG	LEU	Y	693	-38.737	89.375	10.132	1.00	40.00	6
		ATOM	47		LEU			-37.794	88.570	9.247		40.00	6
	55	ATOM	48		LEU			-40.142	88.827	9.862		40.00	6
		ATOM	49	C	LEU			-38.921	90.378	13.816		40.00	6
		ATOM	50	ō	LEU			-39.191	89.474	14.615		40.00	8
		ATOM	51	N	LEU			-38.366	91.533	14.076		40.00	7
			J #	.,	110	•	J / 7	30.300	71.000	14,070	1.00		•

5	ATOM	52	CA	LEU	Y	694	-38.174	91.885	15.435	1.00	40.00	6
	ATOM	53	CB	LEU	Y	694	-37.181	93.002	15.561	1.00	40.00	6
	ATOM	54	CG	LEU	Y	694	-35.799	92.377	15.869	1.00	40.00	6
	ATOM	55	CD1	LEU	Y	694	-34.897	93.275	16.702	1.00	40.00	6
	ATOM	56	CD2	LEU	Y	694	-35.897	91.055	16.661	1.00	40.00	6
10	MOTA	57	С	LEU	Y	694	-39.596	91.903	15.915	1.00	40.00	б
	MOTA	58	0	LEU	Y	694	-39.985	91.253	16.858	1.00	40.00	8
	MOTA	59	N	GLN	Y	695	-40.787	92.229	15.048	1.00	40.00	7
	ATOM	60	CA	GLN	Y	695	-42.034	91.457	15.543	1.00	40.00	б
	MOTA	61	С	GLN	Y	695	-43.054	90.901	14.240	1.00	40.00	б
15	MOTA	62	0	GLN	Y	695	-43.102	91.557	13.189	1.00	40.00	8
	MOTA	63	CB	GLN	Y	695	-42.362	92.025	16.923	1.00	40.00	6
	ATOM	64	CG	GLN	Y	695	-41.013	92.101	17.768	1.00	40.00	6
	MOTA	65	CD	GLN	Y	695	-40.943	91.235	19.059	1.00	40.00	6
	MOTA	66	OE1	GLN	Y	695	-41.828	90.426	19.318	1.00	40.00	8
20	MOTA	67	NE2	GLN	Y	695	-39.938	91.399	19.916	1.00	40.00	7
	MOTA	68	N	ASP	Y	696	-43.802	89.498	14,402	1.00	40.00	7
	MOTA	69	CA	ASP	Y	696	-44.784	88.354	13.428	1.00	40,00	6
	MOTA	70	С	ASP	Y	696	-46.034	88.934	12.759	1.00	40.00	6
	MOTA	71	0	ASP	Y	696	-46.266	88.655	11.529	1.00	40.00	8
25	MOTA	72	СВ	ASP	Y	696	-45.211	87.192	14.322	1.00	40.00	6
	MOTA	73	ÇG	ASP	Y	696	-44.021	86.560	15.058	1.00	40.00	6
	ATOM	74	OD1	ASP	Y	696	-42.823	86.994	14.844	1.00	40.00	8
	ATOM	75	OD2	ASP	Y	696	-44.212	85.591	15.889	1.00	40.00	8
	END											



5

COPY

Atomic Coordinates for Human ERa Complexed with DES, and a GRIP1 NR-box 2 Peptide

	10	CRYST1	54.09	94 82	.217	58.	041	90.00) 1	11.33	90	.00	P 21	2
	10	ORIGX1	1.0	00000	0.000		0	00000	n n	.00000				
		ORIGX2		00000	1.000			00000		.00000				
		ORIGX3		00000	0.000			00000		.00000				
		SCALE1		18486	0.000			00722		.00000		•		
	15	SCALE2		00000	0.012			00000		.00000				
	13	SCALE3		00000	0.000			01849		.00000				
		ocanos	0.0	00000	0.000	,000	٥.	01043	, ,	. 00000				
		ATOM	1	СВ	SER	A	305			-14.7				73.26
		ATOM	2	C	SER	A	305		5.331			1.289		72.95
	20	ATOM	3	0	SER	A	305			-13.9		1.186		72.46
		ATOM	4	N	SER	A	305			-16.0		0.285		74.06
		ATOM	5	CA	SER	A	305			-14.7		0.061		73.59
		ATOM	б	N	LEU	A	306			-14.3		2.449		72.21
é ^{rza}	0.5	ATOM	7	CA	ĻEU	A	306		5.329			3.702		71.05
	25	ATOM	8	CB	LEU	A	306		6.251			4.878		70.19
191		ATOM	9	C	LEU	A	306		4.929			3.719		69.57
in		MOTA	10	0	LEU	A	306		5.580			3.100		69.96
		MOTA	11	N	ALA	A	307		3.851			4.434		68.06
,		ATOM	12	CA	ALA	A	307		3.358			4.541		64.88
ي. خــة	30	MOTA	13	CB	ALA	A	307		1.841			4.436		65.83
 		MOTA	14	C	ALA	A	307		3.792			5.866		63.36
13		ATOM	15	0	ALA	A	307		3.878			6.005		62.73
Ö		ATOM	16	N	LEU	A	308		4.064			6.842		62.52
	2.5	ATOM	17	CA	LEU	A	308		4.487			8.156		62.57
in t	35	ATOM	18	CB	LEU	A	308			-11.7		9.171		62.81
132		ATOM	19	CG	LEU	A	308			-12.6		9.130		64.21
: Fi		ATOM	20	CD1	LEU	A	308			-13.5				66.28
		ATOM	21	CD2	LEU	A	308			-11.8		8.989		63.80
*De#	40	ATOM	22	C	LEU	A	308 308		5.303 6.385	-10.0 -9.4		8.100 9.066		61.61 62.92
	40	ATOM ATOM	23 24	и О	LEU SER	A A	309		0.363 6.561			6.959		60.50
		ATOM	2 4 25	CA	SER	A	309		7.928			6.771		58.73
		ATOM	26	CB	SER	A	309		7.920 8.720			5.934		59.53
		ATOM	27	OG	SER	A	309		8.889			4.606		59.47
	45	ATOM	28	C	SER	A	309		7.986			6.099		57.05
	•••	MOTA	29	0	SER	A	309		8.965			6.249		56.70
		MOTA	30	N	LEU	A	310		6.940		_	5.352		52.69
		ATOM	31	CA	LEU	A	310		6.877					48.20
		ATOM	32	CB	LEU	A	310		5.516			3.974		48.32
	50	ATOM	33	CG	LEU	A	310		5.301			2.583		44.94
		ATOM	34	CD1	LEU	A	310		3.951			2.055		46.45
		ATOM	35	CD2	LEU	A	310		6.417			1.650		43.19
		ATOM	36	C	LEU	A	310		7.086			5.609		46.44
		ATOM	37	ō	LEU	A	310		6.605			6.741		46.78
	55	ATOM	38	N	THR	A	311		7.812			5.148		44.36
		ATOM	39	CA	THR	A	311		B.034	-3.3		5.949		42.88
		ATOM	40	CB	THR	A	311		9.313	-2.6		5.532		42.31
		ATOM	41	OG1	THR	A	311		9.079	-1.9		4.303	1.00	42.50
		ATOM	42	CG2	THR	A	311		0.464			5.350		46.02
	60	ATOM	43	C	THR	A	311		6.834			5.674		43.21
		ATOM	44	0	THR	A	311		5.021					42.12

	5	ATOM	45	N	ALA	A	312	36.726	-1.372	6.409	1.00	42.16
		ATOM	46	CA	ALA	A	312	35.616	-0.444	6.228	1.00	40.10
		ATOM	47	CB	ALA	A	312	35.741	0.709	7.205	1.00	40.07
		ATOM	48	C	ALA	A	312	35.561	0.090	4,799	1.00	41.80
		ATOM	49	0	ALA	A	312	34.510	0.074	4.154	1.00	37.81
	10	ATOM	50		ASP		313	36.698	0.564	4.304	1.00	42.35
	10			N		A						
		ATOM	51	CA	ASP	A	313	36.752	1.104	2.953	1.00	42.27
		ATOM	52	CB	ASP	A	313	38.133	1.703	2.680	1.00	43.74
	٠	ATOM	53	CG	ASP	A	313	38.323	3.054	3.348	1.00	46.62
		MOTA	54	OD1	ASP	A	313	39.414	3.645	3.205	1.00	51.01
	15	ATOM	55	OD2	ASP	A	313	37.380	3.529	4.015	1.00	48.89
		MOTA	56	C	ASP	A	313	36.422	0.027	1.926	1.00	38.68
		ATOM	57	0	ASP	A	313	35.704	0.281	0.959	1.00	38.75
		ATOM	58	N	GLN	A	314	36.931	-1.179	2.145	1.00	34.76
		ATOM	59	CA	GLN	A	314	36.666	-2.277	1.229	1.00	33.55
	20	ATOM	60	CB	GLN	A	314	37.462	-3.512	1.643	1.00	36.90
		ATOM	61	CG	GLN	A	314	38.963	-3.384	1.436	1.00	40.45
		ATOM	62	CD	GLN	A	314	39.700	-4.610	1.905	1.00	43.13
			63	OE1	GLN	A	314	39.394	-5.196	2.935	1.00	43.60
		MOTA						40.701	-5.032	1.117	1,00	44.03
.1255	26	MOTA	64	NE2	GLN	A	314					
	25	ATOM	65	C	GLN	A	314	35.176	-2.595	1.201	1.00	34.95
ď		ATOM	66	0	GLN	A	314	34.605	-2.860	0.140	1.00	32.89
ľU		ATOM	67	N	MET	A	315	34.542	-2.564	2.374	1.00	32.54
Ü		ATOM	68	CA	MET	A	315	33.115	-2.848	2,470	1.00	35.46
طد		MOTA	69	CB	MET	A	315	32.650	-2.794	3.926	1,00	37.09
14	30	ATOM	70	CG	MET	A	315	31.137	-2.777	4.097	1.00	39.42
عدا		ATOM	71	SD	MET	A	315	30.443	-4.426	4.053	1.00	46.55
أسل		MOTA	72	ÇE	MET	A	315	31.351	-5.205	5.397	1.00	45.29
Ii		ATOM	73	C	MET	A	315	32.311	-1.859	1.640	1.00	31.83
		ATOM	74	0	MET	A	315	31.453	-2.247	0.852	1.00	32.10
ليا	35	ATOM	75	N	VAL	A	316	32.587	-0.560	1.830	1.00	32.62
يد. ا . ا		ATOM	76	CA	VAL	A	316	31.882	0.470	1.079	1.00	31,09
Ų		ATOM	77	СВ	VAL	A	316	32.395	1.888	1.425	1.00	34.77
٥		ATOM	78	CG1	VAL	A	316	31.786	2.899	0.461	1.00	34.10
10		ATOM	79	CG2	VAL	A	316	32.021	2.246	2.862	1.00	34.40
Ū	40									-0.414	1.00	33.48
	40	MOTA	80	C	VAL	A	316	32.092 31.145				
		ATOM	81	0	VAL	A	316	·		-1.200	1.00	32.49
		ATOM	82	N	SER	A	317	33.337	-0.027		1.00	
		ATOM	83	CA	SER	A	317	33.682	-0.280		1.00	32.88
	4.5	MOTA	84	CB	SER	A	317	35.165	-0.635		1.00	35.77
	45	MOTA	85	OG	SER	A	317	35.825		-3.154	1.00	42.70
		ATOM	86	C	SER	A	317	32,849	-1.396		1.00	30.71
		MOTA	87	0	SER	A	317	32.279	-1.238	-3.880	1.00	31.14
		MOTA	88	N	ALA	A	318	32.792	-2.529	-2.111	1.00	29.51
		ATOM	89	CA	ALA	A	318	32.035	-3.676	-2.580	1.00	29.93
	50	ATOM	90	CB	ALA	A	318	32.156	-4.811	-1.579	1.00	28.56
		ATOM	91	С	ALA	A	318	30,565	-3.305	-2.771	1.00	31.55
		ATOM	92	Ō	ALA	A	318	29.961	-3.642		1.00	30.64
		ATOM	93	N	LEU	A	319	29.997	-2.614		1.00	34.13
		ATOM	94	CA	LEU	A	319	28.597	-2.212		1.00	32.93
	55	ATOM	95	CB	LEU	A	319	28.170	-1.576		1.00	31.15
	<i>J</i>											
		ATOM	96	CG	LEU	A	319	28.076	-2.555	0.632	1.00	32.27
		ATOM	97	CD1	LEU	A	319	27.523	-1.840	1.852	1.00	32.14
		MOTA	98	CD2	LEU	A	319	27.194	-3.733		1.00	31.82
		MOTA	99	С	LEU	A	319	28.340	-1.257		1.00	34.41
	60	MOTA	100	0	LEU	A	319	27.430	-1.475		1.00	35.23
		ATOM	101	N	LEU	A	320	29.140	-0.195		1.00	32.53
		MOTA	102	CA	LEU	A	320	28.972	0.756	-4.212	1.00	35.33

										•	
	5	ATOM	103	CB	LEU	A	320	30.052	1.839 -4.155	1.00	33.52
	_	ATOM	104	CG	LEU	A	320	29.974	2.899 -3.054	1.00	34.60
		ATOM	105	CDi	LEU	A	320	31.060	3.940 -3.292	1.00	33.69
		ATOM	106	CD2	LEU	A	320	28.611	3.562 -3.044	1.00	31.05
		ATOM	107	C C	LEU	A	320	29.052	0.040 -5.561	1.00	35.41
	10	ATOM	108	o	LEU	A	320	28.230	0.271 -6.446	1.00	39.16
	10										
		ATOM	109	N	AASP	A	321	30.042	-0.833 -5.720	0.50	36.33
		ATOM	110	N	BASP	A	321	30.041	-0.839 -5.695	0.50	35.76
		MOTA	111	CA	AASP	A	321	30.214	-1.559 -6.977	0.50	37.71
		ATOM	112	CA	BASP	A	321	30.258	-1.595 -6.925	0.50	37.11
	15	MOTA	113	CB	AASP	A	321	31.537	-2.334 -6.973	0.50	40.01
		ATOM	114	CB	BASP	A	321	31.573	-2.374 -6.826	0.50	39.41
		MOTA	115	CG	AASP	A	321	31.694	-3.230 -8.195	0.50	41.93
		ATOM	116	CG	BASP	A	321	32.770	-1.562 -7.284	0.50	39.96
		MOTA	117	OD1	AASP	A	321	31.523	-2.733 -9.329	0.50	42.11
	20	ATOM	118	OD1	BASP	A	321	33.312	-1.868 -8.366	0.50	43.41
		ATOM	119	OD2	AASP	A	321	31.988	-4.432 -8.022	0.50	42.69
		ATOM	120	OD2	BASP	A	321	33.170	-0.622 -6.564	0.50	41.33
		ATOM	121	C	AASP	A	321	29.069	-2.524 -7.275	0.50	37.19
		MOTA	122	Ċ	BASP	A	321	29.123	-2.565 -7.253	0.50	36.68
	25	ATOM	123	0	AASP	A	321	28.820	-2.861 -8.434	0.50	36.87
	23										
Ģ		MOTA	124	0	BASP	A	321	28.934	-2.942 -8.411	0.50	36.08
Ü		MOTA	125	И	ALA	A	322	28.374	-2.968 -6.235	1.00	35.35
IJ		MOTA	126	CA	ALA	A	322	27.268	-3.902 -6.417	1.00	31.59
	20	ATOM	127	CB	ALA	A	322	27.124	-4.781 -5.175	1.00	30.73
يُهِ '	30	MOTA	128	С	ALA	A	322	25.946	-3.204 -6.709	1.00	30.07
<u>ئە</u>		ATOM	129	0	ALA	A	322	24.955	-3.857 -7.036	1.00	26.53
1		MOTA	130	N	GLU	A	323	25.932	-1.880 -6.596	1.00	27.98
5 3		MOTA	131	CA	GLU	A	323	24.713	-1.117 -6.827	1.00	29.88
		ATOM	132	CB	GLU	A	323	25.027	0.380 -6.855	1.00	30.98
لرا	35	ATOM	133	ÇG	GLU	A	323	24.870	1.068 -5.509	1,00	31.62
لدا		ATOM	134	CD	GLU	A	323	23.463	0.940 -4.960	1.00	31.98
		ATOM	135	OE1	GLU	A	323	23.183	-0.056 -4.257	1.00	33.10
Ğ		ATOM	136	OE2	GLU	A	323	22.640	1.836 -5.233	1.00	30.01
Û		ATOM	137	C	GLU	A	323	24.010	-1.515 -8.123	1.00	30.86
4 <u>4.</u> 3	40	ATOM	138	ō	GLU	A	323	24.655	-1.705 -9.151	1.00	28.86
	. •	ATOM	139	N	PRO	A	324	22.674	-1.659 -8.083	1.00	30.66
		ATOM	140	CD	PRO	A	324	21.774	-1.466 -6.935		31.01
		ATOM	141	CA	PRO	A	324	21.935	-2.032 -9.290	1.00	30.29
		ATOM	142	СВ	PRO	A	324	20.613	-2.598 -8.760	1.00	31.42
	45	ATOM	143	CG	PRO	A	324	20.626		1.00	
	43			C					-2.363 -7.258		33.66
		ATOM	144		PRO	A	324	21.717	-0.785-10.138	1.00	27.46
		ATOM	145	0	PRO	A	324	21.893	0.332 -9.668	1.00	26.19
		ATOM	146	N	PRO	A	325	21.335	-0.959-11.403	1.00	27.80
	50	ATOM	147	CD	PRO	A	325	21.082	-2.198-12.161	1.00	27.35
	50	ATOM	148	CA	PRO	A	325	21.125	0.242-12.211	1.00	25.59
		ATOM	149	CB	PRO	A	325	21.258	-0.266-13.637	1.00	24.02
		ATOM	150	CG	PRO	A	325	20.773	-1.695-13.559	1.00	26.00
		ATOM	151	C	PRO	A	325	19.749	0.830-11.954	1.00	23.73
		ATOM	152	0	PRO	A	325	18.873	0.165-11.402	1.00	24.83
	55	ATOM	153	N	ILE	A	326	19.571	2.081-12.352	1.00	22.11
		ATOM	154	CA	ILE	A	326	18.296	2.762-12.212	1.00	24.01
		ATOM	155	CB	ILE	A	326	18.502	4.282-12.133	1.00	25.97
		ATOM	156	CG2	ILE	A	326	17,168	4.992-12.286	1.00	20.75
		ATOM	157	CG1	ILE	A	326	19.189	4.632-10.805	1.00	29.31
	60	ATOM	158	CD1	ILE	A	326	19.301	6.120-10.525	1.00	32.91
		ATOM	159	C	ILE	A	326	17.506	2.408-13.471	1.00	25.72
		ATOM	160	0	ILE	A	326	17.906	2.758-14.581	1.00	25.72
		21011	100	•	115	~	340	17.900	2.130-14.35I	4.00	23.33

	5	ATOM	161	N	LEU	A	327	16.392	1.703-13.301	1.00	25.57
		ATOM	162	CA	LEU	A	327	15.595	1.279-14.439	1.00	23.80
		ATOM	163	CB	LEU	A	327	14.872	-0.029-14.104	1.00	23.96
		ATOM	164	CG	LEU	A	327	15.778	-1.210-13.728	1.00	19.89
		ATOM	165	CD1	LEU	A	327	14.944	-2.462-13.583	1.00	21.19
	10										
	10	ATOM	166	CD2	LEU	A	327	16.850	-1.415-14.805	1.00	17.53
		MOTA	167	C	LEU	A	327	14.598	2.317-14.935	1.00	27.16
		MOTA	168	0	LEU	A	327	14.161	3.202-14.194	1.00	25.98
		ATOM	169	N	TYR	A	328	14.251	2.207-16.210	1.00	26.56
		ATOM	170	ÇA	TYR	A	328	13.303	3.123-16.814	1.00	24.45
	15	ATOM	171	CB	TYR	A	328	13.724	3.465-18.245	1.00	26.72
		ATOM	172	CG	TYR	A	328	14.587	4.693-18.314	1.00	27.73
		ATOM	173	CD1	TYR	A	328	14.021	5.949-18.518	1.00	28.56
		ATOM	174	CE1	TYR	A	328	14.798	7.092-18.509	1.00	29.10
		ATOM	175		TYR	A	328	15.962	4.612-18.110	1.00	26.01
	20			CD2							
	20	MOTA	176	CE2	TYR	A	328	16.750	5.753-18.098	1.00	30.63
		ATOM	177	CZ	TYR	A	328	16.157	6.988-18.297	1.00	30.07
		ATOM	178	OH	TYR	A	328	16.917	8.130-18.265	1.00	37.94
		ATOM	179	C	TYR	A	328	11.923	2.501-16.827	1.00	24.95
		MOTA	180	0	TYŖ	A	328	11.774	1.274-16.846	1.00	27.02
	25	ATOM	181	N	SER	A	329	10.912	3.358-16.800	1.00	25.60
Ü		ATOM	182	CA	SER	A	329	9.533	2.908-16.837	1.00	29.45
IJ		ATOM	183	CB	SER	A	329	8.661	3.858-16.020	1.00	30.80
Ü		ATOM	184	OG:	SER	A	329	7.297	3.721-16.364	1.00	33.74
- <u>-</u>		ATOM	185	c	SER	A	329	9.129	2.947~18.313	1.00	31.30
·~	30	ATOM	186	0	SER	A	329	9.908	3.397-19.154	1.00	27.35
	50	ATOM	187	N	GLU	A	330	7.930	2.469-18.629	1.00	32.98
-											
•		ATOM	188	CA	GLU	A	330	7.459	2.482-20.007	1.00	35.10
11		ATOM	189	CB	GLU	A	330	6.031	1.968-20.074	1.00	34.67
		ATOM	190	С	GLU	A	330	7.532	3.924-20.505	1.00	40.06
لدا	35	ATOM	191	0	GLU	A	330	7.068	4.841-19.826	1.00	42.65
IJ		ATOM	192	N	TYR	A	331	8.124	4.126-21.681	1.00	41.16
		ATOM	193	CA	TYR	A	331	8.263	5.470-22.234	1.00	42.66
ñ		ATOM	194	CB	TYR	A	331	9.323	5.482-23.350	1.00	42.54
Ď		ATOM	195	CG	TYR	Α	331	9.202	4.347-24.345	1.00	38.67
٠24	40	ATOM	196	CD1	TYR	A	331	10.105	3.284-24.334	1.00	34.66
		ATOM	197	CE1	TYR	A	331	9.985	2.228-25.233	1.00	34.89
		ATOM	198	CD2	TYR	A	331	8.174	4.327-25.287	1.00	37.88
		ATOM	199	CE2	TYR	A	331	8.045	3.276-26.193	1.00	34.65
		ATOM	200		TYR		331	8.950	2.232-26.159	1.00	
	45			CZ		A					30.73
	43	ATOM	201	OH	TYR	A	331	8.814	1.191-27.042	1.00	30.97
		ATOM	202	С	TYR	A	331	6.943	6.043-22.754	1.00	46.24
		ATOM	203	0	TYR	A	331	6.018	5.301-23.096	1.00	45.38
		ATOM	204	N	ASP	A	332	6.868	7.372-22.792	1.00	49.11
		ATOM	205	CA	ASP	A	332	5.684	8.092-23.262	1.00	52.40
	50	ATOM	206	CB	ASP	A	332	5.781	8.321-24.772	1.00	52.86
		ATOM	207	C	ASP	A	332	4.356	7.410-22.926	1.00	52.90
		ATOM	208	0	ASP	A	332	3.561	7.116-23.818	1.00	53.94
		ATOM	209	N	PRO	A	333	4.103	7.144-21.632	1.00	53.63
		ATOM	210	CD	PRO	A	333	4.962	7.418-20.465	1.00	53.63
	55									1.00	
	<i></i>	ATOM	211	CA	PRO	A	333	2.840	6.497-21.253		53.55
		ATOM	212	CB	PRO	A	333	3.070	6.076-19.802	1.00	53.78
		ATOM	213	CG	PRO	A	333	4.101	7.028-19.290	1.00	53.42
		ATOM	214	C	PRO	A	333	1.673	7.478-21.398	1.00	52.17
		MOTA	215	0	PRO	A	333	1.879	8.690-21.395	1.00	51.19
	60	MOTA	216	N	THR	A	334	0.457	6.956-21.532	1.00	52.26
		ATOM	217	CA	THR	A	334	-0.724	7.802-21.687	1.00	54.21
		ATOM	218	CB	THR	A	334	-1.997	6.949-21.813	1.00	53.90

	5	ATOM	219	OG1	THR	A	334	-1.971	6.256-23.065	1.00	53.92
		ATOM	220	CG2	THR	A	334	-3,237	7.821-21.761	1.00	54.15
		ATOM	221	С	THR	A	334	-0.864	8.782-20.525	1.00	56.34
		ATOM	222	0	THR	A	334	-1,389	8.443-19.461	1.00	56.44
		ATOM	223	N	ARG	A	335	-0.386	10.002-20.766	1.00	58.24
	10	ATOM	224	ÇA	ARG	A	335	-0.377	11.099-19.801	1.00	57.96
		MOTA	225	CB	ARG	A	335	-0.569	12.427-20.531	1.00	60.22
		ATOM	226	C	ARG	A	335	-1.349	10.996-18.627	1.00	56.61
		ATOM	227	Ö	ARG	A	335	-0.919	10.908-17.475	1.00	60.70
		ATOM	228	N	PRO	A	336	-2.667	11.015-18.889	1.00	52.43
	15	ATOM .	229	CD	PRO	A	336	-3.389	11.117-20.165	1.00	49.06
		ATOM	230	CA	PRO	A	336	-3.587	10.915-17.752	1.00	49.58
		MOTA	231	CB	PRO	A	336	-4.911	11.456-18.302	1.00	48.66
		ATOM	232	CG	PRO	A	336	-4.645	11.809-19.760	1.00	51.33
		ATOM	233	C	PRO	A	336	-3.698	9.468-17.279	1.00	49.25
	20	ATOM	234	Õ	PRO	A	336	-4.340	8.644-17.929	1.00	48.06
	20	ATOM	235	N	PHE	A	337	-3.063	9.170-16.147	1.00	47.90
		ATOM	236	CA	PHE	A	337	-3.055	7.821-15.582	1.00	46.61
		ATOM	237	CB	PHE	A	337	-2.063	7.732-14.421	1.00	47.73
		ATOM	237	CG	PHE	A	337	-0.649	8.011-14.805	1.00	46.27
i mal	25	ATOM	239	CD1	PHE	A	337	-0.017	9.168-14.368	1.00	46.55
	23	ATOM	240	CD2	PHE	A	337	0.061	7.113-15.591	1.00	48.12
ı <u>D</u> IV		ATOM	241	CE1	PHE	A	337	1.305	9.429-14.707	1.00	48.09
iΩ		ATOM	242	CE2	PHE	A	337	1.386	7.364-15.938	1.00	47.57
		ATOM	243	CZ	PHE	A	337	2.009	8.525-15.495	1.00	48.40
- <u> -</u> -	30	ATOM	244	C	PHE	A	337	-4.401	7.338-15.071	1.00	46.15
-¥	30	ATOM	245	0	PHE	A	337	-5.250	8.127-14.671	1.00	48.34
`		ATOM	246	N	SER	A	338	-4.573	6.022-15.080	1.00	45.06
		ATOM	247	CA	SER	A	338	-5.781	5.385-14.578	1.00	45.12
E: gasay		ATOM	248	CB	SER	A	338	-6.477	4.594-15.684	1.00	44.49
	35	ATOM	249	OG	SER	A	338	-6.227	3.206-15.554	1.00	45.78
ļ.J		ATOM	250	C	SER	A	338	-5.292	4.439-13.488	1.00	47.04
ليا		ATOM	251	Ö	SER	A	338	-4.090	4.186-13.387	1.00	44.08
		ATOM	252	N	GLU	A	339	-6.206	3.916-12.676	1.00	45.63
Đ Đ		ATOM	253	CA	GLU	A	339	-5.802	3.012-11.608	1.00	45.40
111	40	ATOM	254	CB	GLU	Α	339	-7.015	2.521-10.814	1.00	45.66
		ATOM	255	CG	GLU	A	339	-6.637	1.680 -9.600	1.00	46.81
		ATOM	256	CD	GLU	A	339	-7.717	1.652 -8.535	1.00	47.56
		ATOM	257	OE1	GLU	A	339	-8.471	0.656 -8.477	1.00	47.37
		ATOM	258	OE2	GLU	A	339	-7.810	2.625 -7.754	1.00	49.29
	45	ATOM	259	С	GLU	A	339	-5.040	1.821-12.170	1.00	45.23
		ATOM	260	0	GLU	A	339	-3.862	1.641-11.872	1.00	46.51
		ATOM	261	N	ALA	A	340	-5.712	1.010-12.982	1.00	42.87
		ATOM	262	CA	ALA	A	340	-5.078	-0.158-13.574	1.00	40.24
	•	ATOM	263	CB	ALA	A	340	-6.055	-0.871-14.496	1.00	41.40
	50	ATOM	264	С	ALA	A	340	-3.837	0.273-14.350	1.00	38.83
		ATOM	265	0	ALA	A	340	-2.909	-0.515-14.543	1.00	35.58
		MOTA	266	N	SER	A	341	-3.836	1.535-14.773	1.00	35.79
		MOTA	267	CA	SER	A	341	-2.742	2.133-15.537	1.00	36.58
		ATOM	268	CB	SER	A	341	-3.231	3.454-16.154	1.00	39.01
	55	ATOM	269	OG	SER	A	341	-2.211	4.130-16.864	1.00	36.09
		ATOM	270	C	SER	A	341	-1.480	2.376-14.691	1.00	35.63
		MOTA	271	0	SER	Α	341	-0.389	1.913-15.038	1.00	33.20
		MOTA	272	N	MET	A	342	-1.626	3.115-13.595	1.00	35.92
		ATOM	273	CA	MET	A	342	-0.498	3.396-12.708	1.00	35.88
	60	ATOM	274	CB	MET	Α	342	-0.912	4.396-11.623	1.00	35.96
		ATOM	275	CG	MET	A	342	0.241	5.218-11.059	1.00	38.02
		MOTA	276	SD	MET	A	342	-0.308	6.374 -9.780	1.00	44.73

	5	ATOM	277	CE	MET	A	342	0.626	7.815-10.205	1.00	42.49
		ATOM	278	C	MET	A	342	-0.011	2.100-12.059	1.00	34.17
		ATOM	279	0	MET	A	342	1.195	1.880-11.909	1.00	33.40
		ATOM	280	N	MET	A	343	-0.957	1.243-11.687	1.00	29.95
		ATOM	281	CA	MET	A	343	-0.640	-0.034-11.062	1.00	31.96
	10				_						
	10	ATOM	282	CB	MET	A	343	-1.921	-0.810-10.751	1.00	31.70
		ATOM	283	CG	MET	A	343	-2,667	-0.337 -9.502	1.00	37.13
		MOTA	284	SD	MET	A	343	-1.749	-0.507 -7.940	1.00	36.00
		MOTA	285	CE	MET	A	343	-1.468	-2.299 -7.886	1.00	32.14
		MOTA	286	C	MET	A	343	0.234	-0.875-11.979	1.00	31.72
	15	ATOM	287	0	MET	A	343	1.159	-1.558-11.527	1.00	30.26
		ATOM	288	N	GLY	A	344	-0.069	-0.823-13.272	1,00	29.04
		ATOM	289	CA	GLY	A	344	0.688	-1.591-14.242	1.00	24.94
		ATOM	290	C	GLY	A	344	2.104	-1.085-14.396	1.00	26.01
		ATOM	291	õ	GLY	A	344	3.046	-1.873-14.463	1.00	28.72
	20							2.257			
	20	MOTA	292	N	LEU	A	345		0.232-14.471	1.00	26.97
		MOTA	293	CA	LEU	A	345	3.576	0.839-14.608	1.00	31.15
		MOTA	294	CB	LEU	A	345	3.459	2.361-14.753	1.00	30.06
		ATOM	295	CG	LEU	A	345	2.765	2.924-15.995	1.00	33.50
		MOTA	296	CD1	ĻEU	A	345	2.901	4.439-15.999	1.00	33.52
	25	ATOM	297	CD2	LEU	Α	345	3.379	2.324-17.257	1.00	33.22
·D		ATOM	298	C	LEU	Α	345	4.433	0.534-13.383	1.00	30.31
IŪ		ATOM	299	0	LEU	Α	345	5.564	0.061-13.505	1.00	32.80
ΙĎ		ATOM	300	N	LEU	Α	346	3,884	0.813-12.205	1.00	27.83
4		ATOM	301	CA	LEU	A	346	4.595	0.596-10.947	1.00	26.19
	30	ATOM	302	СВ	LEU	A	346	3.729	1.063 -9.783	1.00	24.51
	J	ATOM	303	CG	LEU	A	346	3.483	2.569 -9.682	1.00	26.33
		ATOM	304	CD1	LEU	A	346	2.623	2.844 -8.463	1.00	27.33
'vj							346	4.809	3.317 -9.587	1.00	24.89
El James		ATOM	305	CD2	LEU	A					
	25	MOTA	306	C	LEU	A	346	5.032	-0.848-10.707	1.00	25.72
ليا	35	ATOM	307	0	LEU	A	346	6.181	-1.102-10.345	1.00	29.86
لدا		ATOM	308	N	THR	A	347	4.117	-1.793-10.891	1.00	23.80
		MOTA	309	CA	THR	A	347	4.436	-3.196-10.674	1.00	23.91
Ð		MOTA	310	CB	THR	A	347	3.164	-4.058-10.641	1.00	26.39
, Ç		MOTA	311	OG1	THR	A	347	2.421	-3.860-11.849	1.00	24.57
	40	ATOM	312	CG2	THR	A	347	2.301	-3.682 -9.444	1.00	23.98
		ATOM	313	C	THR	A	347	5.366	-3.734-11.756	1,00	26.17
		ATOM	314	0	THR	A	347	6.176	-4.622-11.496	1.00	27.44
		ATOM	315	N	ASN	Α	348	5.242	-3.197-12.970	1.00	25.48
		MOTA	316	CA	ASN	A	348	6.092	-3.617-14.082	1.00	23.77
	45	ATOM	317	CB	ASN	A	348	5.657	-2.926-15.385	1.00	24.59
	,,,	ATOM	318	CG	ASN	A	348	6.522	-3.302-16.571	1.00	29.93
		ATOM	319	OD1	ASN	A	348	7.616	-2.799-16.771	1.00	24.81
		ATOM	320	ND2	ASN	A	348	6.010	-4.236-17.391	1.00	32.61
	50	ATOM	321	C	ASN	A	348	7.532	-3.229-13.741	1.00	22.82
	50	MOTA	322	0	ASN	A	348	8.453	-4.027-13.870	1.00	18.83
		MOTA	323	N	LEU	Α	349	7.711	-1.993-13.288	1.00	22.58
		MOTA	324	CA	LEU	Α	349	9.030	-1.507-12.914	1.00	21.85
		MOTA	325	CB	LEU	A	349	8.929	-0.028-12.536	1.00	22.00
		ATOM	326	CG	LEU	A	349	10.155	0.673-11.953	1.00	23.64
	55	ATOM	327	CD1	LEU	A	349	11.224	0.826-13.017	1.00	19.35
		ATOM	328	CD2	LEU	A	349	9.726	2.040-11.415	1.00	21.97
		MOTA	329	C	LEU	A	349	9.564	-2.335-11.734	1.00	22.94
		ATOM	330	ŏ	LEU	A	349	10.724	-2.749-11.717	1.00	23.97
		ATOM	331	И	ALA	A	350		-2.591-10.756	1.00	21.67
	60	ATOM	332	CA	ALA	A	350	9.113	-3.356 ~9.586	1.00	21.83
	-	ATOM	333	CB	ALA		350 350	7.963	-3.441 -8.593	1.00	18.95
						A					
		ATOM	334	С	ALA	A	350	9.568	-4.757 -9.985	1.00	21.90

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	5	MOTA	393	SD	MET	A	357	15.051	-6.755	-3.531	1.00	23.64
		ATOM	394	CE	MET	A	357	14.189	-5.332	-4.163	1.00	23.13
		ATOM	395	Ċ	MET	A	357	18.411	-8.259		1.00	23.69
		ATOM	396	ō	MET	A	357	19.337	-8.328		1.00	24.41
		ATOM	397		ILE	A	358	17.856	-9.331		1.00	27.14
	10			N								
	10	ATOM	398	CA	ILE	A	358		-10.672		1.00	28.79
		MOTA	399	CB	ILE	A	358	17.529			1.00	32.42
		ATOM	400	CG2	ILE	A	358		-13.064		1.00	32.77
		ATOM	401	CG1	ILE	A	358	16.125	-11.880	-6.644	1.00	31.94
		ATOM	402	CD1	ILE	A	358	15.062	-12.196	-7.680	1.00	34.85
	15	ATOM	403	C	ILE	A	358	19.801	-10.802	-6.728	1.00	28.75
		ATOM	404	0	ILE	A	358	20.569	-11.305	-5.912	1.00	31.60
		ATOM	405	N	ASN	Α	359		-10.325		1.00	27.91
		ATOM	406	CA	ASN	A	359		-10.401		1.00	29.16
							359		-10.172		1.00	31.88
	20	ATOM	407	CB	asn	A						
	20	ATOM	408	CG	ASN	A	359		-11.381-		1.00	39.34
		MOTA	409	OD1	ASN	A	359		-12.422-		1.00	41.27
•		ATOM	410	ND2	ASN	A	359		-11.255-		1.00	38.58
		ATOM	411	С	ASN	A	359	22.476	-9.436	-7.510	1.00	30.75
		ATOM	412	0	ASN	A	359	23.686	-9.629	-7.412	1.00	33.35
	25	ATOM	413	N	TRP	A	360	21.872	-8.400	-6.940	1.00	30.07
õ		ATOM	414	CA	TRP	A	360	22.634	-7.451	-6.132	1.00	27.87
ĪŪ		ATOM	415	CB	TRP	A	360	21.849	-6.150	-5.948	1.00	24.80
Ø		ATOM	416	CG	TRP	A	360	22,196	-5.392		1.00	23.04
		ATOM	417	CD2	TRP	A	360	21.501	-5.443		1.00	19.83
,1/1 	30	ATOM	418	CE2	TRP	A	360	22.147	-4.543		1.00	22.31
	30						360	20.392	-6.165		1.00	20.09
		ATOM	419	CE3	TRP	A					1.00	
, 4		ATOM	420	CD1	TRP	A	360	23.212	-4.488			18.99
\$1		ATOM	421	NE1	TRP	A	360	23.187	-3.974		1.00	21.17
		ATOM	422	CZ2	TRP	A	360	21.721	-4.340		1.00	20.43
لزا	35	ATOM	423	CZ3	TRP	A	360	19.968	-5.965		1.00	20.12
لدا		ATOM	424	CH2	TRP	A	360	20.635	-5.057		1.00	18.54
		ATOM	425	C	TRP	A	360	22.892	-8.099	-4.766	1.00	24.88
Õ		ATOM	426	0	TRP	A	360	23.978	-7.980	-4.198	1.00	25.00
Ū		MOTA	427	N	ALA	A	361	21.879	-8.789	-4.252	1.00	24.08
195	40	ATOM	428	CA	ALA	A	361	21,972	-9.462	-2.958	1.00	26.06
		ATOM	429	CB	ALA	A	361	20.676	-10.203	-2.672	1.00	20.27
		ATOM	430	C	ALA	A	361		-10.433			28.44
		ATOM	431	ō	ALA	A	361		-10.531		1.00	28.95
•		ATOM	432	N	LYS	A	362		-11.144		1.00	31.41
	45	ATOM	433	CA	LYS	A	362		-12.097		1.00	33.33
	43						362		-12.824		1.00	34.81
		ATOM	434	CB	LYS	A						36.27
		MOTA	435	CG	LYS	A	362		-13.608		1.00	
		ATOM	436	CD	LYS	A	362		-14.178		1.00	38.30
		MOTA	437	CE	LYS	A	362		-15.193		1.00	40.94
	50	MOTA	438	NZ	LYS	A	362		-15.322		1.00	42.49
		ATOM	439	C	LYS	Α	362	25.854	-11.351	-3.893	1.00	34.17
		ATOM	440	0	LYS	A	362	26.880	-11.977	-3.595	1.00	35.40
		MOTA	441	N	AARG	A	363	25.826	-10.059	-4.095	0.50	34.23
		ATOM	442	N	BARG	A	363		-10.059		0.50	34.03
	55	ATOM	443	CA		A	363	27.035	-9.254		0.50	33.25
		ATOM	444	CA		A	363	27.035	-9.254		0.50	32.83
		ATOM	445	CB		A	363	27.033	-8.153		0.50	34.67
								27.031	-8.153		0.50	34.20
		ATOM	446	CB	BARG		363					
	۲0	ATOM	447	CG		A	363	26.933	-8.654		0.50	36.32
	60	ATOM	448	CG		A	363	26.930	-8.654		0.50	35.56
		ATOM	449	CD	AARG		363	27.745			0.50	38.39
		MOTA	450	CD	BARG	A	363	27.752	-7.781	-7.414	0.50	37.18

	_								_			
	5	ATOM	451	NE	AARG		363	29.171		-7.091	0.50	39.98
		MOTA	452	NE	BARG	A	363	27.195	-7.725	-8.762	0.50	37.39
		ATOM	453	CZ	AARG	A	363	30.086	-7.038	-7.692	0.50	40.54
		ATOM	454	CZ	BARG	A	363	27.905	-7.457	-9.855	0.50	40.02
		MOTA	455	NH1	AARG	A	363	29.735	-6.218	-8.675	0.50	38.13
	10	ATOM	456	NH1	BARG	A ·		29.205		-9.761	0.50	40.42
	• •	ATOM	457	NH2	AARG	A	363	31.358		-7.326	0.50	43.19
		MOTA	458	NH2	BARG	A	363	27.311		-11.041	0.50	38.91
		ATOM	459	C	AARG	A	363	27.207		-2.610	0.50	33.28
		ATOM	460	C	BARG	A	363	27.207		-2.610	0.50	32.81
	15	ATOM	461	0	AARG	A	363	28.223	-7.992	-2.344	0.50	34.18
		ATOM	462	0	BARG	A	363	28.223	-7.992	-2.345	0.50	33.43
		ATOM	463	N	VAL	A	364	26.215	-8.798	-1.740	1.00	33.12
		ATOM	464	CA	VAL	A	364	26.288		-0.389	1.00	33.63
		ATOM	465	СВ	VAL	A	364	24.898	-8.178	0.292	1.00	34.97
	20	ATOM	466	CG1	VAL	A	364	25.036	-7.608	1.700	1.00	35.44
	20										1.00	36.69
		MOTA	467	CG2	VAL	A	364	23.946		-0.532		
		MOTA	468	C	VAL	A	364	27.184	-9.157	0.428	1.00	34.27
		MOTA	469	0	VAL	A	364	26.878	-10.341	0.603	1.00	34.95
		ATOM	470	N	PRO	A	365	28.306	-8.626	0.935	1.00	36.08
٦	25	MOTA	471	CD	PRO	A	365	28.775	-7.235	0.793	1.00	34.84
Ō		MOTA	472	CA	PRO	A	365	29.231	-9.442	1.733	1.00	37.82
IŪ		MOTA	473	CB	PRO	A	365	30.110	-8.408	2.430	1.00	34.31
Ü		ATOM	474	CG	PRO	A	365	30.127	-7.247	1.475	1.00	37.77
		MOTA	475	C	PRO	A	365	28.538	-10.373	2.720	1.00	37.61
<u> </u> -	30	ATOM	476	0	PRO	A	365	27.692	-9.945	3.507	1.00	37.74
1	30											
		ATOM	477	N	GLY	A	366	28.890	-11.654	2.654	1.00	39.04
إيرا		ATOM	478	CA	GLY	A	366	28.307		3.554	1.00	38.27
93		ATOM	479	C	GLY	Α	366	26.991		3.138	1.00	39.32
		ATOM	480	0	GLY	A	366	26.638	-14.336	3.635	1.00	39.53
Į.	35	ATOM	481	N	PHE	Α	367	26.246	-12.615	2.236	1.00	38.60
IJ		ATOM	482	CA	PHE	Α	367	24.960	-13.148	1.783	1.00	36.36
1 m² 1 m²		ATOM	483	CB	PHE	Α	367	24.281	-12.178	0.808	1.00	32.10
		ATOM	484	CG	PHE	A	367	22.827	-12.473	0.581	1.00	30.12
Ü		ATOM	485	CD1	PHE	A	367	22.401	-13.083		1.00	28.95
۱ <u>۵</u>	40	ATOM	486	CD2	PHE	A	367 ⁻	21.882	-12.176	1.563	1.00	26.18
	40										1.00	
		ATOM	487	CE1	PHE	A	367	21.050	-13.400			29.42
		ATOM	488	CE2	PHE	A	367	20.535	-12.491	1.373	1.00	27.60
		ATOM	489	CZ	PHE	A	367	20.118		0.196	1.00	26.81
		ATOM	490	C	PHE	A	367	25.072		1.117	1.00	36.82
	45	ATOM	491	0	PHE	A	367	24.244	-15.398	1.359	1.00	36.55
		MOTA	492	N	VAL	A	368	26.088	-14.694	0.276	1.00	38.28
		ATOM	493	CA	VAL	A	368	26.289	-15.965	-0.420	1.00	42.34
		MOTA	494	CB	VAL	A	368	27.386	-15.850	-1.504	1.00	41.78
		ATOM	495	CG1	VAL	A	368	26.972	-14.831		1.00	44.60
	50	ATOM	496	CG2	VAL	A	368	28.707			1.00	42.23
	50								-17.100			
		ATOM	497	С	VAL	A	368			0.533	1.00	43.85
		MOTA	498	0	VAL	A	368		-18.274	0.216	1.00	44.85
		ATOM	499	N	ASP	A	369		-16.750	1.699	1.00	44.93
		MOTA	500	CA	ASP	A	369		-17.755	2.688	1.00	44.96
	55	ATOM	501	CB	ASP	A	369	28.336	-17.106	3.849	1.00	43.76
		ATOM	502	CG	ASP	A	369	29.608	-16.413	3.404	1.00	43.04
		ATOM	503	OD1	ASP	A	369	30.121		4.167	1.00	44.32
		ATOM	504	OD2	ASP	A	369	30.097		2.293	1.00	46.76
		ATOM	505	C	ASP	A	369	26.340		3.228	1.00	45.89
	60	ATOM	506	0	ASP		369		-19.671	3.475	1.00	48.61
	00					A			•			
		ATOM	507	N	LEU	A	370	25.261		3.407	1.00	43.59
		ATOM	508	CA	LEU	A	370	24.020	-18.279	3.924	1.00	44.24

	5	MOTA	509	CB	LEU	A	370	22.980	-17.173	4.110	1.00	41.42
		MOTA	510	eg	LEU	A	370	23.404	-16.015	5.014	1.00	41.45
		ATOM	511	CD1	LEU	A	370	•	-15.095	5.245	1.00	42.25
		ATOM	512	CD2	LEU	A	370	23.931		6.332	1.00	38.35
												44.03
	10	MOTA	513	C	LEU	A	370	23.449		3.013	1.00	
	10	ATOM	514	0	LEU	A	370	23.773		1.829	1.00	43.63
		ATOM	515	N	THR	A	371	22.593		3.575	1.00	44.29
		MOTA	516	CA	THR	A	371	21.968	-21.272	2.806	1.00	44.84
		ATOM	517	CB	THR	A	371	21.293	-22.302	3.730	1.00	45.65
		ATOM	518	OG1	THR	A	371	•	-21.663	4.495	1.00	46.43
	15	ATOM	519	CG2	THR	A	371		-22.903	4.677	1.00	46.48
	1.5	ATOM		C	THR		371		-20.684		1.00	44.93
			520			A						
		ATOM	521	0	THR	A	371		-19.585	2.092	1.00	44.36
		MOTA	522	N	LEU	A	372		-21.418	0.804	1.00	43.83
		ATOM	523	CA	LEU	A	372	19.624	-20.971	-0.166	1.00	44.62
	20	ATOM	1524	CB ·	LEU	A	372	19.407	-22.043	-1.237	1,00	47.17
		ATOM	525	CG	LEU	A	372	18.512	-21.690	-2.429	1.00	46.91
		ATOM	526	CD1	LEU	A	372		-20.417		1.00	48.73
		ATOM	527	CD2	LEU	A	372	·-	-22.844		1.00	51.12
		ATOM	528	C	LEU	-	372				1.00	44.84
4 234	25					A			-20.644	0.512		
Ē	25	MOTA	529	0	LEU	A	372	17.705		0.261	1.00	43.25
Þ		MOTA	530	N	HIS	A	373	17.849			1.00	43.14
ľŲ		ATOM	531	CA	HIS	A	373	16.599	-21.353	2.100	1.00	42.23
Œ		ATOM	532	CB	HIS	A	373	16.318	-22.525	3.062	1.00	45.38
4		MOTA	533	CG	HIS	A	373	15.114	-22.315	3.934	1.00	51.43
1.4	30	ATOM	534	CD2	HIS	A	373	13.808	-22.621	3.743	1.00	54.99
1=		ATOM	535	ND1	HIS	A	373		-21.716	5.174	1.00	54.26
الم		ATOM	536	CE1	HIS	A	373		-21.663	5.709	1.00	53.77
		ATOM	537	NE2	HIS	A	373		-22.206	4.861	1.00	55.27
Ti Jena												
	25	ATOM	538	C	HIS	A	373		-20.047	2.885	1.00	39.78
ĻŲ	35	ATOM	539	0	HIS	A	373		-19.324	2.971	1.00	37.71
IJ		MOTA	540	N	ASP	A	374		-19.738	3.440	1.00	36.38
		MOTA	541	CA	ASP	A	374	18.020	-18.516	4.219	1.00	37.21
D		MOTA	542	CB	ASP	A	374	19.287	-18.620	5.073	1.00	38.17
٠ <u>D</u>		ATOM	543	CG	ASP	A	374	19.064	-19.425	6.344	1.00	41.47
25.	40	MOTA	544	OD1	ASP	A	374	17.896	-19.543	6.772	1.00	37.09
		ATOM	545	OD2	ASP	A	374		-19.940	6.912	1.00	44.40
		ATOM	546	C	ASP	A	374		-17.277			
	•	ATOM	547	ō	ASP	A	374		-16.208		1.00	38.13
		ATOM	548		GLN							
	45			N		A	375		-17.431		1.00	33.13
	4,5	ATOM	549	CA	GLN	A	375		-16.339		1.00	31.94
		ATOM	550	CB	GLN	A	375		-16.756		1.00	28.81
		ATOM	551	CG	GLN	A	375	21.125	-16.570	0.189	1.00	31.71
		ATOM	552	CD	GLN	A	375	21.920	-17.222	-0.922	1.00	34.49
		ATOM	553	OE1	GLN	A	375	21.478	-17.267	-2.067	1.00	36.09
	50	ATOM	554	NE2	GLN	A	375		-17.736		1.00	40.32
		ATOM	555	C	GLN	A	375		-16.009	0.730	1.00	31.50
		ATOM	556	ō	GLN	A	375		-14.840	0.653		27.42
		MOTA	557	N	VAL	A	376		-17.056		1.00	30.38
	e e	MOTA	558	CA	VAL	A	376		-16.907		1.00	33.50
	55	MOTA	559	CB	VAL	A	376		-18.286		1.00	30.57
		MOTA	560	CG1	VAL	A	376		-18.122		1.00	33.14
		ATOM	561	CG2	VAL	A	376	15.232	-18.952	-1.485	1.00	30.79
		ATOM	562	С	VAL	A	376	14.393	-16.159	1.002	1.00	33.80
		ATOM	563	Ō	VAL	A	376		-15.237	0.661	1.00	34.89
	60	ATOM	564	N	HIS	A	377		-16.568	2.261	1.00	33.35
		ATOM	565	CA	HIS	A	377		-15.941	3.329	1.00	32.81
		ATOM	566	CB	HIS	A						
		A TOU	700	CD	ura	~	377	17.200	-16.694	4.644	1.00	35.24

	5	ATOM	567	CG	HIS	A	377	13.429	-15.989	5.851	1.00	40.15
		ATOM	568	CD2	HIS	A	377	14.054	-15.495	6.946	1.00	40.86
		ATOM	569	ND1	HIS	A	377	12.090		6.012	1.00	43.08
		ATOM	570	CE1	HIS	A	377	11.913		7.154	1.00	42.44
		MOTA	571	NE2	HIS	A	377	13.089		7.740	1.00	44.85
	10											28.63
	10	MOTA	572	C	HIS	A	377	14.058		3.507	1.00	
		ATOM	573	0	HIS	A	377	13.158		3.613	1.00	29.20
		ATOM	574	N	LEU	A	378	15.343		3.544	1.00	24.41
		MOTA	575	CA	LEU	A	378	15.759	-12.738	3.721	1.00	23.21
		ATOM	576	CB	LEU	A	378	17.289	-12.650	3.743	1.00	20,98
	15	ATOM	577	CG	LEU	Ą	378	17.960	-13.190	5.016	1.00	24.22
		ATOM	578	CD1	LEU	A	378	19.471	-13.041	4.924	1.00	21.07
		ATOM	579	CD2	LEU	A	378	17.431		6.221	1.00	20.24
		ATOM	580	C	LEU	A	378	15.190		2.630	1.00	24.78
		ATOM	581	ō	LEU	A	378	14.638		2.922	1.00	22.09
	20											
	20	ATOM	582	N	LEU	A	379	15.321		1.374	1.00	24.13
		ATOM	583	CA	LEU	A	379	14.812			1.00	25.02
		ATOM	584	CB	LEU	A	379	15.307			1.00	27.12
		MOTA	585	CG	LEU	A	379	16.724	-11,600	-1.437	1.00	24.39
		ATOM	586	CD1	LEU	A	379	17.299	-12.557	-2.470	1.00	27.58
	25	ATOM	587	CD2	LEU	A	379	16.679	-10.178	-1.983	1.00	29.05
· 🗸		ATOM	588	С	LEU	A	379	13.287	-11.355	0.246	1.00	27.61
ίÜ		ATOM	589	0	LEU	A	379	12.726		-0.062	1.00	26.16
Ö		ATOM	590	N	GLU	A	380		-12.454	0.576	1.00	25.65
4		ATOM	591	CA	GLU		380	11.154		0.592	1.00	26.85
`~J	30					A						
	30	MOTA	592	CB	GLU	A	380		-13.882	0.871	1.00	29.38
-		MOTA	593	CG	GLU	A	380		-14.796		1.00	35.58
'		MOTA	594	CD	GLU	A	380		-16.194		1.00	39.31
11		MOTA	595	OE1	GLU	A	380		-17.008		1.00	42.89
		ATOM	596	OE2	GLU	A	380	9.927	-16.478	1.153	1.00	39.45
البرا	35	MOTA	597	С	GLU	A	380	10.604	-11.526	1.649	1.00	25.43
لدأ		MOTA	598	0	GLU	A	380	9.551	-10.925	1.469	1.00	27.75
		ATOM	599	N	CYS	A	381	11.324	-11.400	2.753	1.00	25.57
Ü		MOTA	600	CA	CYS	A	381	10.907		3.843	1.00	26.46
Ď		ATOM	601	CB	CYS	A	381	11.570		5.149	1.00	31.46
تجة	40	ATOM	602	SG	CYS	A	381	11.305	-9.946	6.623	1.00	45.32
	• •	ATOM	603	C	CYS	A	381	11.262	-9.059	3.589	1.00	24.77
	•	ATOM	604	0	CYS	A	381	10.516			1.00	25.01
		ATOM	605	N	ALA	A	382	12.377	-8.815	2.903	1.00	22.23
		MOTA	606	CA	ALA	A	382	12.855	-7.449		1.00	21.83
	45	MOTA	607	CB	ALA	A	382	14.319	-7.383	3.095	1.00	21.56
		ATOM	608	C	ALA	A	382	12.705	-6.778	1.311	1.00	19.78
		MOTA	609	0	ALA	Α	382	12.996	-5.587	1.182	1.00	17.01
		ATOM	610	N	TRP	A	383	12.261	-7.507	0.294	1.00	17.61
		ATOM	611	CA	TRP	A	383	12.164	-6.915	-1.036	1.00	18.06
	50	ATOM	612	СВ	TRP	A	383	11.580	-7.928		1.00	20.28
		ATOM	613	CG	TRP	A	383	10.105	-8.201		1.00	20.50
		ATOM	614	CD2	TRP	A	383	9.049	-7.509		1.00	22.48
		ATOM	615	CE2	TRP	A	383	7.836	-8.138		1.00	20.41
	55	ATOM	616	CE3	TRP	A	383	9.012	-6.420		1.00	22.06
	22	ATOM	617	CD1	TRP	A	383	9.506	-9.189		1.00	23.38
		ATOM	618	NE1	TRP	A	383	8.142	-9.159		1.00	22.59
		ATOM	619	CZ2	TRP	A	383	6.598	-7.713		1.00	21.98
		ATOM	620	CZ3	TRP	A	383	7.780	-5.998	-3.968	1.00	25.50
		ATOM	621	CH2	TRP	A	383	6.589	-6.647	-3.587	1.00	23.11
	60	ATOM	622	С	TRP	Α	383	11.448	-5.564		1.00	19.18
		ATOM	623	0	TRP	A	383	11.972	-4.663		1.00	19.27
		ATOM	624	N	LEU	A	384	10.273	-5.396		1.00	18.32
									2.220		•	

								•				
	5	MOTA	625	CA	LEU	A	384	9.586	-4.118	-0.719	1.00	16.38
		ATOM	626	CB	LEU	A	384	8.125	-4.218	-0.258	1.00	16.79
		ATOM	627	CG	LEU	A	384	7.211		-0.577	1.00	18.39
		ATOM	628	CD1	LEU	A	384	7.464		-1.995	1.00	13.91
		ATOM	629	CD2	LEU	A	384	5.750		-0.410	1.00	18.38
	10								-3.027			18.80
	10	ATOM	630	C	LEU	A	384	10.324		0.051	1.00	
		ATOM	631	0	LEU	A	384	10.334		-0.357	1.00	20.90
		MOTA	632	N	GLU	A	385	10.949	-3.404	1.163	1.00	18.61
		MOTA	633	CA	GLU	A	385	11.718	-2.462	1.970	1.00	19.58
		ATOM	634	CB	GLU	A	385	12.274	-3.154	3.213	1.00	17.43
	15	ATOM	635	CG	GLU	A	385	11.292	-3.237	4.357	1.00	22.92
		ATOM	636	CD	GLU	A	385	11.963	-3.676	5.640	1.00	25.83
		MOTA	637	OE1	GLU	A	385	12.431	-2.799	6.391	1.00	23.69
		MOTA	638	OE2	GLU	A	385	12.027	-4.897	5.889	1.00	27.64
		ATOM	639	C	GLU	A	385	12.890	-1.934	1.156	1.00	19.46
	20	ATOM	640	o .	GLU	A	385	13.206	-0.743	1.196	1.00	15.04
	20								-2.842	0.431		13.32
		ATOM	641	N	ILE	A	386	13.539			1.00	
		ATOM	642	CA	ILE	A	386	14.685		-0.388	1.00	15,01
		MOTA	643	CB	ILE	A	386	15.475		-0.807	1.00	17.43
		ATOM	644	CG2	ILE	A	386	16.544		-1.849	1.00	17.99
12	25	ATOM	645	CG1	ILE	A	386	16.185	-4.338	0.432	1.00	20.31
ıΩ		MOTA	646	CD1	ILE	A	386	16.682	-5.766	0.284	1.00	23.97
IU		ATOM	647	C	ILE	A	386	14.273	-1.645	-1.598	1.00	16.10
Ø		ATOM	648	0	ILE	A	386	14.993	-0.724	-2.004	1.00	17.42
		ATOM	649	N	LEU	A	387	13.112	-1.944	-2.167	1.00	17.61
الها	30	ATOM	650	CA	LEU	A	387	12.620	-1.173	-3.304	1.00	18.20
<u> </u>		ATOM	651	СВ	LEU	A	387	11.359		-3.882	1.00	17.51
, e [ATOM	652	CG	LEU	A	387	11.519		-4.747	1.00	26.37
		ATOM	653	CD1	LEU	A	387	10.173		-5.395	1.00	24.63
		ATOM	654	CD2	LEU	A	387	12.589		-5.808	1.00	21.58
	35	ATOM	655	C	LEU	A	387	12.283		-2.838	1.00	17.60
i.i.	55		656		LEU		387	12.571		-3.530	1.00	17.15
[]		ATOM		0		Α						17.15
122		ATOM	657	N	MET	A	388	11.677		-1.660	1.00	
		ATOM	658	CA	MET	A	388	11.286		-1,121	1.00	18.49
ı 💭	40	MOTA	659	CB	MET	A	388	10.302	1.460	0.034	1.00	19.65
	40	MOTA	660	CG	MET	A	388	8.893		-0.435	1.00	15.12
		ATOM	661	SD	MET	A	388	7.744	0.769	0.910	1.00	18.73
		ATOM	662	CE	MET	A	388	6.163		0.048	1.00	18.34
		ATOM	663	C	MET	A	388	12.451	2.553	-0.691	1.00	22.62
	•	ATOM	664	0	MET	Α	388	12.417	3.767	-0.928	1.00	22.49
	45	ATOM	665	N	ILE	A	389	13.482	1.988	-0.064	1.00	21.45
		ATOM	666	CA	ILE	A	389	14.604	2.831	0.331	1.00	18.54
		ATOM	667 [.]	CB	ILE	A	389	15.590	2.108	-	1.00	19.35
		ATOM	668	CG2	ILE	A	389	16.362	0.998		1.00	15.50
		MOTA	669	CG1	ILE	A	389	16.556	3.142		1.00	21.95
	50	ATOM	670	CD1	ILE	A	389	17.373	2.658	3.080	1.00	15.86
	50	ATOM	671	C	ILE	A	389	15.333		-0.922	1.00	18.67
		ATOM	672	0	ILE	Ą	389	15.813		-0.970	1.00	19.75
		MOTA	673	N	GLY	A	390	15.410		-1.943	1.00	20.58
	e e	ATOM	674	CA	GLY	A	390	16.049		-3.183	1.00	19.33
	55	MOTA	675	C	GLY	A	390	15.243		-3.819	1.00	17.48
		MOTA	676	0	GLY	A	390	15.801	4.994	-4.318	1.00	21.87
		MOTA	677	N	LEU	A	391	13.920		-3.787	1.00	19.17
		MOTA	678	CA	LEU	A	391	13.018	4.887	-4.343	1.00	21.50
		MOTA	679	CB	LEU	A	391	11.561	4.420	-4.194	1.00	18.25
	60	MOTA	680	CG	LEU	A	391	10.480		-4.342	1.00	21.98
		ATOM	681	CD1	LEU	A	391	10.579		-5.725	1.00	21.39
		ATOM	682	CD2	LEU	A	391	9.115		-4.148	1.00	17.15
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	5	ATOM	683	C	LEU	A	391	13.208	6.216 -3.620	1.00	23.27
		ATOM	684	0	LEU	A	391	13.440	7.255 -4.243	1.00	23.60
		ATOM	685	N	VAL	A	392	13.122	6.170 -2.295	1.00	23.04
		ATOM	686	CA	VAL	A	392	13.282	7.357 -1.469	1.00	24.42
		ATOM	687	CB	VAL	A	392	13.186	6.993 0.042	1.00	27.38
	10	ATOM	688	CG1	VAL	A	392	13.733	8.129 0.897	1.00	30.37
	10								6.712 0.414	1.00	23.48
		MOTA	689	CG2	VAL	A	392	11.739			
		ATOM	690	C	VAL	A	392	14.626	8.014 -1.754	1.00	27.55
		ATOM	691	0	VAL	A	392	14.728	9.242 -1.832	1.00	27.50
		ATOM	692	N	TRP	A	393	15.652	7.186 -1.924	1.00	23.65
	15	ATOM	693	CA	TRP	A	393	16.999	7.670 -2.204	1.00	24.76
		MOTA	694	CB	TRP	A	393	17,977	6.491 -2,199	1.00	22.86
		ATOM	695	CĢ	TRP	Ą	393	19.287	6.784 -2.857	1.00	25.90
		ATOM	696	CD2	TRP	A	393	20.341	7.605 -2.339	1.00	28.09
		ATOM	697	CE2	TRP	A	393	21.375	7.612 -3.302	1.00	29.94
	20	MOTA	698	CE3	TRP	A	393	20.512	8.335 -1.154	1.00	30.20
		MOTA	699	CD1	TRP	A	393	19.710	6.339 -4.077	1.00	26.55
		ATOM	700	NE1	TRP		393	20.963	6.833 -4.351	1,00	30.64
						A			•		
		ATOM	701	CZ2	TRP	A	393	22.566	8.323 -3.120	1.00	32.43
	0.7	MOTA	702	CZ3	TRP	A	393	21.698	9.044 -0.971	1.00	34.58
	25	ATOM	703	CH2	TRP	A	393	22.709	9.030 -1.950	1.00	36.54
'nØ		MOTA	704	C	TRP	A	393	17.082	8.414 -3.547	1.00	25.02
IU		ATOM	705	0	TRP	Ą	393	17.76 7	9.435 -3.650	1.00	20.97
IJ		ATOM	706	N	ARG	A	394	16.399	7.897 -4.568	1.00	23.06
14		ATOM	707	CA	ARG	A	394	16.412	8,531 -5.890	1.00	25.97
` .	30	ATOM	708	CB	ARG	A	394	15.776	7.633 -6.965	1.00	24.05
<u> </u> -		ATOM	709	CG	ARG	A	394	16.243	6.195 -7.024	1.00	26.05
المن ا		ATOM	710	CD	ARG	Α	394	15.830	5.551 -8.352	1.00	22.70
		ATOM	711	NE	ARG	A	394	14.443	5.071 -8.363	1.00	20.71
E!		ATOM	712	cz	ARG	A	394	14.053	3.912 -7.841	1.00	21.26
	35	ATOM	713	NH1	ARG	A	394	14.944	3.108 -7.267	1.00	20.09
لدا	55			NH1	ARG	A	394	12.783	3.544 -7.907	1.00	21.26
		ATOM	714								
1		MOTA	715	C	ARG	A	394	15.622	9.833 -5.879	1.00	23.40
Ð		MOTA	716	0	ARG	A	394	15.889	10.729 -6.677	1.00	28.61
٠Ð	40	ATOM	717	N	SER	A	395	14.638	9.924 -4.988	1.00	26.65
	40	ATOM	718	CA	SER	A	395	13.776	11.104 -4.902	1.00	27.46
		ATOM	719	CB	SER	A	395	12.395	10.696 -4.382	1.00	26.70
		MOTA	720	OG	SER	A	395	11.916	9.530 -5.029	1.00	22.95
		ATOM	721	С	SER	A	395	14.316	12.240 -4.033	1.00	31.45
		ATOM	722	0	SER	A	395	13.726	13.324 -3.977	1.00	28.11
	45	ATOM	723	N	MET	A	396	15.437	11.986 -3.368	1.00	33.83
		ATOM	724	CA	MET	A	396	16.061	12.954 -2.475	1.00	38.83
		ATOM	725	CB	MET	A	396	17,466	12.483 -2.112	1.00	39.47
		MOTA	726	CG	MET	A	396	17.585	11.919 -0.715	1.00	41,37
		ATOM	727	SD	MET	A	396	19.192	12.262 0.004	1.00	42.20
	50	ATOM	728	CE	MET	A	396	20.263	11.996 -1.404	1.00	42.84
	30										
		ATOM	729	C	MET	A	396	16.143	14.376 -3.018	1.00	40.69
		MOTA	730	0	MET	A	396	15.637	15.316 -2.403	1.00	38.85
		MOTA	731	N	GLU	A	397	16.794	14.526 -4.166	1.00	42.19
	~ -	MOTA	732	CA	GLU	A	397	16.971	15.831 -4.790	1.00	44.80
	55	ATOM	733	CB	GLU	A	397	18.184	15.785 -5.729	1.00	46.02
		ATOM	734	CG	GLU	A	397	17.883	15.189 -7.096	1.00	54.42
		ATOM	735	CD	GLU	A	397	19.117	14.665 -7.810	1.00	59.40
		ATOM	736	OE1	GLU	A	. 397	19.219	13.430 -7.990	1.00	60.63
		MOTA	737	OE2	GLU	A	397	19.980	15.485 -8.196	1.00	62.71
	60	ATOM	738	C	GLU	A	397	15.735	16.322 -5.554	1.00	42.94
		ATOM	739	Ö	GLU	A	397	15.830	17.229 -6.376	1.00	44.68
		ATOM	740	N	HIS	A	398	14.579	15.728 -5.280	1.00	40.82
			, 20	••		^	J J G	14.J/J	.J. 120 -J.20U	1.00	30.02

	5	ATOM	741	CA	HIS	A	398	13.342	16.118 -5.950	1.00	39.21
		ATOM	742	CB	HIS	A	398	12.924	15.043 -6.956	1.00	39.05
		MOTA	743	CG	HIS	A	398	13.870	14.886 -8.104	1.00	41.57
		ATOM	744	CD2	HIS	A	398	13.904	15.484 -9.318	1.00	39.28
		MOTA	745	ND1	HIS	A	398	14.940	14.017 -8.074	1.00	41.85
	10	ATOM	746		HIS	A	398	15.592	14.086 -9.220	1.00	40.88
	10			CE1							
		MOTA	747	NE2	HIS	A	398	14.985	14.969 -9.993	1.00	42.30
		MOTA	748	C	HIS	A	398	12.216	16.332 -4.944	1.00	37.04
		MOTA	749	0	HIS	A	398	11.282	15.535 -4.864	1.00	36.51
		MOTA	750	N	PRO	A	399	12.283	17.427 -4.171	1.00	39.19
	15	ATOM	751	CD	PRO	A	399	13.328	18.467 -4.198	1.00	35.36
		ATOM	752	CA	PRO	A	399	11.243	17.709 -3.173	1.00	37,10
		ATOM	753	CB	PRO	A	399	11.603	19.101 -2.654	1.00	37.86
		ATOM	754	CG	PRO	A	399	13.050	19.267 -2.963	1.00	35.83
		ATOM	755	C	PRO	A	399	9.828	17.663 -3.744	1.00	37.02
	20	ATOM	756	0		A	399	9.554	18.249 -4.789	1.00	38.52
	20				PRO						
		ATOM	757	N	GLY	A	400	8.938	16.954 -3.057	1.00	33.58
		ATOM	758	CA	GŢŹ	A	400	7.559	16.865,-3.503	1.00	32.12
		MOTA	759	C	GLY	A	400	7.230	15.706 -4.428	1.00	32.43
		MOTA	760	0	GLY	A	400	6.063	15.344 -4.574	1.00	33.21
	25	MOTA	761	N	LYS	A	401	8.237	15.112 -5.055	1.00	31.35
٠Ď		ATOM	762	CA	LYS	A	401	7.972	14.007 -5.966	1.00	30.75
IU		ATOM	763	CB	LYS	A	401	8.235	14.430 -7.415	1.00	35.43
ΙĎ		ATOM	764	CG	LYS	A	401	8.130	15.927 -7.675	1.00	35.15
14		ATOM	765	CD	LYS	A	401	9.096	16.353 -8.774	1.00	36.88
نرا	30	ATOM	766	CE	LYS	A	401	8.733	17.721 -9.331	1.00	36.71
 	50	ATOM	767	NZ	LYS	A	401	7.295	18.027 -9.116	1.00	34.22
'		ATOM	768	C	LYS	A	401	8.768	12.746 -5.677	1.00	30.97
				0	LYS	A	401	9.809	12.776 -5.006	1.00	27.60
i) 2000.		ATOM	769								
	0.0	AŢOM	770	N	LEU	A	402	8.256	11.635 -6.197	1.00	27.28
لدا	35	ATOM	771	CA	LEU	A	402	8.889	10.334 -6.050	1.00	29.07
IJ		ATOM	772	CB	LEU	A	402	7.866	9.294 -5.590	1.00	22.55
		ATOM	773	CG	LEU	A	402	7.265	9.555 -4.207	1.00	24.94
ıΩ		MOTA	774	CD1	LEU	A	402	6.126	8.583 -3.937	1.00	19.32
ď		ATOM	775	CD2	LEU	A	402	8.355	9.416 -3.157	1.00	21.54
-	40	ATOM	776	C	LEU	A	402	9.448	9.948 -7.414	1.00	28.78
		MOTA	777	0	LEU	A	402	8.704	9.836 -8.389	1.00	29.98
		ATOM	778	N	ĻEU	A	403	10.761	9.770 -7.487	1.00	27.57
		ATOM	779	CA	LEU	A	403	11.393	9.400 -8.744	1.00	27.17
		ATOM	780	CB	LEU	A	403	12.825	9.937 -8,816	1.00	26.95
	45	ATOM	781	CG	LEU	A	403	13.401	10.027-10.238	1.00	30.42
	75	ATOM	782	CD1	LEU	A	403	14.519	11.046-10.288	1.00	30.76
									8.665-10.676	1.00	33.11
		ATOM	783	CD2	LEU	A	403	13.915			
		ATOM	784	C	LEU	A	403	11.419	7.891 -8.901	1.00	24.78
		MOTA	785	0	LEU	A	403	12.428	7.257 -8.619	1.00	24.68
	50	ATOM	786	N	PHE	A	404	10.306	7.319 -9.344	1.00	23.11
		MOTA	787	CA	PHE	A	404	10.239	5.881 -9.546	1.00	26.93
		MOTA	788	CB	PHE	A	404	8.826	5.470 -9.946	1.00	27.04
		MOTA	789	CG	PHE	A	404	7.850	5.513 -8.816	1.00	27.89
		ATOM	790	CD1	PHE	Α	404	7.028	6.623 -8.631	1.00	26.20
	55	ATOM	791	CD2	PHE	A	404	7.750	4.444 -7.925	1.00	23.10
		ATOM	792	CE1	PHE	A	404	6.116	6.668 -7.573	1.00	25.29
		ATOM	793	CE2	PHE	A	404	6.845	4.481 -6.870	1.00	21.01
		ATOM	793 794	CZ	PHE	A	404	6.026	5.595 -6.693	1.00	22.91
	60	ATOM	795	C	PHE	A	404	11.232	5.507-10.637	1.00	26.04
	60	ATOM	796	0	PHE	A	404	11.882	4.464-10.578	1.00	27.27
		ATOM	797	N	ALA	A	405	11.348	6.383-11.626	1.00	28.80
		ATOM	798	CA	ALA	A	405	12.271	6.195-12.740	1.00	29.21

	5	ATOM	799	CB	ALA	A	405	11.650	5.287-13.806	1.00	26.89
		MOTA	800	C	ALA	A	405	12.549	7.578-13.317	1.00	30,23
		ATOM	801	0	ALA	A	405	11.770	8.508-13.109	1.00	27.38
		ATOM	802	N	PRO	A	406	13.672	7.737-14.032	1.00	30.05
		ATOM	803	CD	PRO	A	406	14.712	6.745-14.352	1.00	26.31
	10										
	10	ATOM	804	CA	PRO	A	406	13.977	9.053-14.604	1.00	32.10
		ATOM	805	CB	PRO	A	406	15.232	8.800-15.438	1.00	31.28
		ATOM	806	CG	PRO	A	406	15.865	7.602-14.776	1.00	31.44
		MOTA	807	C	PRO	A	406	12.820	9.589-15.436	1.00	32.58
		ATOM	808	0	PRO	A	406	12.605	10.796-15.507	1.00	32.58
	15	ATOM	809	N	ASN	A	407	12.063	8.690-16.053	1.00	32.86
		ATOM	810	CA	ASN	A	407	10.935	9.119-16.865	1.00	32.78
		ATOM	811	CB	ASN	A	407	10.950	8.418-18.228	1.00	34.73
		ATOM	812	CG	ASN	A	407	10.884	6.907-18.121	1.00	35.37
	30	ATOM	813	OD1	ASN	A	407	11.189	6.317-17.077	1.00	30.24
	20	ATOM	814	ND2	ASN	A	407	10.486	6.268-19.215	1.00	34.08
		ATOM	815	C	ASN	A	407	9.605	8.901-16.166	1.00	34.90
		ATOM	816	0	ASN	A	407	8.549	8.897-16.798	1.00	36.09
		ATOM	817	N	LEU	A	408	9.660	8.724-14.851	1.00	33.56
		'ATOM	818	CA	LEU	A	408	8.452	8.544-14.061	1.00	35.59
	25	ATOM	819	CB	LEU	Α	408	8.141	7.062-13.851	1.00	33.81
		ATOM	820	CG	LEU	Α	408	6.696	6.823-13.397	1.00	36.44
Ð		ATOM	821	CD1	LEU	A	408	5.746	7.479-14.390	1.00	34.14
ij		ATOM	822	CD2	LEU	A	408	6.406	5.334-13.287	1.00	32.96
IJ											
4	20	ATOM	823	C	LEU	A	408	8.607	9.245-12.717	1.00	38.03
ارس	30	ATOM	824	0	LEU	A	408	8.880	8.614-11.695	1.00	36.38
-		MOTA	825	N	LEU	A	409	8.441	10.563-12.741	1.00	37.87
100		MOTA	826	CA	LEU	A	409	8.548	11.395-11.553	1.00	37.95
E !		ATOM	827	CB	LEU	A	409	9.373	12.636-11.877	1.00	39.52
		ATOM	828	CG	LEU	Α	409	10.023	13.399-10.728	1.00	42.46
لدا	35	ATOM	829	CD1	LEU	А	409	11.100	12.547-10.082	1.00	43.24
		ATOM	830	CD2	LEU	A	409	10.614	14.691-11.266	1.00	46.05
OGGE		ATOM	831	C	LEU	A	409	7.132	11.792-11.163	1.00	37.13
<u>_</u>		ATOM	832	ō	LEU	A	409	6.482	12.546-11.882	1.00	35.70
·Ω		ATOM	833	N	LEU	A	410	6.654	11.284-10.030	1.00	35.29
·D	40	ATOM	834	CA	LEU	Ā	410	5.297	11.576 -9.583	1.00	33.33
	40								· ·		
		MOTA	835	CB	LEU	A	410	4.503	10.277 -9.449	1.00	29.37
		ATOM	836	CG	LEU	A	410	4.645	9.238-10.560	1.00	32.75
		MOTA	837	CD1	LEU	A	410	4.026	7.925-10.104	1.00	29.16
		ATOM	838	CD2	LEU	A	410	3.958	9.744-11.819	1.00	30.70
	45	ATOM	839	C	LEU	A	410	5.207	12.332 -8.261	1.00	35.14
		ATOM	840	Q	LEU	A	410	6.078	12.214 -7.400	1.00	36.94
		MOTA	841	N	ASP	A	411	4.141	13.108 -8.105	1.00	34.76
		ATOM	842	CA	ASP	A	411	3.933	13.843 -6.873	1.00	35.40
		ATOM	843	CB	ASP	A	411	3.733	15.341 -7.144	1.00	40.02
	50	ATOM	844	CG	ASP	A	411	2.471	15.645 -7.928	1.00	41.32
	50	ATOM									
			845	OD1	ASP	A	411	1.570	14.785 -8.001	1.00	45.03
		ATOM	846	OD2	ASP	A	411	2.383	16.764 -8.474	1.00	45.01
		ATOM	847	С	ASP	A	411	2.727	13.234 -6.179	1.00	36.10
		MOTA	848	0	ASP	A	411	2.033	12.395 -6.762	1.00	34.08
	55	MOTA	849	N	ARG	A	412	2.480	13.647 -4.940	1.00	35.99
		ATOM	850	CA	ARG	A	412	1.375	13.099 -4.169	1.00	39.37
		ATOM	851	CB	ARG	A	412	1.260	13.824 -2.825	1.00	39.75
		ATOM	852	CG	ARG	A	412	0.562	15.168 -2.870	1.00	40.49
		ATOM	853	CD	ARG	A	412	0.454	15.736 -1.465	1.00	40.65
	60	ATOM	854	NE	ARG	A	412	-0.261	14.826 -0.577	1.00	37.48
		ATOM	855	CZ	ARG	A	412	-1.574	14.855 -0.384	1.00	42.84
		ATOM	856	NH1	ARG	A	412	-2.316	15.754 -1.024	1.00	40.82
								1.7.4			

	5	ATOM	857	NH2	ARG	A	412	-2.150	13.986 0.438	1.00	38.32
		ATOM	858	C	ARG	A	412	0.034	13,108 -4.889	1.00	39.80
		ATOM	859	0	ARG	A	412	-0.775	12.201 -4.706	1.00	39.92
		ATOM	860	N	ASN	A	413	-0.198	14.119 -5.717	1.00	41.64
		MOTA	861	CA	ASN	A	413	-1.458	14.215 -6.440	1.00	43.19
	10	ATOM	862	CB	ASN	A	413	-1.518	15.533 -7.210	1.00	46.44
	10								16.718 -6.299	1.00	
		ATOM	863	CG	ASN	A	413	-1.739			47.86
		ATOM	864	OD1	ASN	A	413	-2.376	16.594 -5.249	1.00	48.05
		MOTA	865	ND2	ASN	A	413	-1.213	17.876 -6.687	1.00	49.43
		ATOM	866	С	asn	A	413	-1.673	13.044 -7.385	1.00	41.48
	15	MOTA	867	0	asn	A	413	-2.792	12.567 -7.546	1.00	40.50
		ATOM	868	N	GLN	A	414	-0.600	12.577 -8.010	1.00	42.82
		ATOM	869	CA	GLN	A	414	-0.703	11.448 -8.925	1.00	44.73
		MOTA	870	CB	GLN	A	414	0.585	11.307 -9.741	1.00	47.52
		ATOM	871	CG	GLN	A	414	0.572	12.088-11.049	1.00	50.47
	20	ATOM	872	CD	GLN	A	414	1.914	12.713-11.375	1.00	53.91
		ATOM	873	OE1	GLN	A	414	2.591	13.257-10.501	1.00	53.68
		ATOM	874	NE2	GLN	A	414	2.309	12.637-12.641	1.00	56.91
		ATOM	875	C	GLN	A	414	-0.970	10.163 -8.141	1.00	43.21
		ATOM	876	0	GLN		414	-1.491	9.193 -8.682	1.00	42.33
	25					A					
	25	MOTA	877	N	GLY	A	415	-0.618	10.168 -6.860	1.00	41.97
·Ø		ATOM	878	CA	GLY	A	415	-0.836	8.992 -6.040	1.00	40.43
Ū		ATOM	879	C	GLY	A	415	-2.306	8.720 ~5.804	1.00	40.80
(D		MOTA	880	0	GLY	A	415	-2.696	7.601 -5.472	1.00	37.83
4		ATOM	881	N	LYS	A	416	-3.129	9.748 -5.978	1.00	42.16
٠٠٠.	30	MOTA	882	CA	LYS	A	416	-4.566	9.613 -5.779	1.00	44.34
14		ATOM	883	CB	LYS	A	416	-5.212	10.996 -5.704	1.00	45.65
1		MOTA	884	CG	LYS	A	416	-4.761	11.819 -4.510	1.00	47.42
# · · ·		ATOM	885	CD	LYS	Α	416	-4.910	13.309 -4.777	1.00	50.97
		ATOM	886	CE	LYS	A	416	-5.992	13.924 -3.898	1.00	53.25
	35	ATOM	887	NZ	LYS	A	416	-5.416	14.764 ~2.809	1.00	56.95
IJ		ATOM	888	C	LYS	A	416	-5.227	8.793 -6.886	1.00	45.33
لنا		ATOM	889	0	LYS	A	416	-6.339	8.299 -6.714	1.00	46.50
		ATOM	890	И	CYS		417	-4.540	8.648 -8.015		
Ū						A				1.00	45.18
Ü	40	ATOM	891	CA	CYS	A	417	-5.066	7.890 -9.148	1.00	46.25
	40	ATOM	892	CB	CYS	A	417	-4.062	7.902-10.305	1.00	49.29
		ATOM	893	SG	CYS	A	417	-3.916	9.493-11.168	1.00	49.59
		MOTA	894	C	CYS	A	417	-5.373	6.452 -8.752	1.00	47.18
		ATOM	895	0	CYS	A	417	-6.220	5.794 -9.359	1.00	46,50
		MOTA	896	N	VAL	A	418	-4.671	5.968 -7.731	1.00	45.07
	45	ATOM	897	CA	VAL	A	418	-4.866	4.612 -7.232	1.00	42.75
		ATOM	898	CB	VAL	A	418	-3.525	3.841 -7.206	1.00	42.45
		ATOM	899	CG1	VAL	A	418	-3.670	2.563 -6.410	1.00	40.22
		ATOM	900	CG2	VAL	A	418	-3.071	3.538 -8.634	1.00	38.03
		ATOM	901	С	VAL	A	418	-5.441	4.714 -5.818	1.00	41.46
	50	ATOM	902	Ö	VAL	A	418	-4.883	5.400 -4.963	1.00	42.08
		ATOM	903	N	GLU	Α	419	-6.559	4.036 -5.579	1.00	40.95
		ATOM	904	CA	GLU	A	419	-7.223	4.073 -4.275	1.00	42.51
		ATOM	905	CB	GLU	A	419	-8.536	3.282 -4.333	1.00	44.52
	E 6	ATOM	906	CG	GLU	A	419	-9.010	2.751 -2.984	1.00	50.42
	55	ATOM	907	CD	GLU	A	419	-10.413	2.168 -3.035	1.00	54.38
		ATOM	908	OE1	GLU	A	419	-10.582	1.059 -3.590	1.00	54.09
		ATOM	909	OE2	GLU	A	419	-11.347	2.820 -2.516	1.00	57.90
		ATOM	910	C	GLU	A	419	-6.370	3.552 -3.121	1.00	41.11
		ATOM	911	0	GLU	Α	419	-5.955	2.393 -3.116	1.00	39.42
	60	ATOM	912	N	GLY	A	420	-6.129	4.419 -2.140	1.00	40.53
		ATOM	913	CA	GLY	A	420	-5.346	4.049 -0.973	1.00	37.61
		ATOM	914	С	GLY	Α	420	-3.854	4.258 -1.140	1.00	37.01

	5	ATOM	915	0	GLY	A	420	-3.088	4.105	-0.190	1.00	32.59
		ATOM	916	N	MET	A	421	-3.444	4.623	-2.350	1.00	36.21
		ATOM	917	CA	MET	A	421	-2.035		-2.656	1.00	36.02
		ATOM	918	CB	MET	A	421	-1.799		-4.160	1.00	32.84
			919	CG	MET	A	421	-0.351		-4.617	1.00	35.82
	10	MOTA										
	10	MOTA	920	SD	MET	A	421	0.806		-3.812	1.00	35.57
		MOTA	921	CE	MET	A	421	0.881		-5.005	1.00	32.51
		MOTA	922	С	MET	A	421	-1,474	6.180	-2.226	1.00	34.93
		ATOM	923	0	MET	A	421	-0.275	6.294	-1.985	1,00	35.17
		ATOM	924	N	VAL	A	422	-2.319	7.205	-2.118	1.00	33.97
	15	ATOM	925	CA	VAL	A	422	-1.823	8.520	-1.708	1.00	31.29
		ATOM	926	CB	VAL	A	422	-2.927		-1.766	1.00	33.14
		ATOM	927	CG1	VAL	A	422	-3.823		-0.533	1.00	30.10
		ATOM	928	CG2	VAL	A	422	-2.279	10.982		1.00	30.08
		ATOM	929	С	VAL	A	422	-1.231		-0.296	1.00	32.64
	20	ATOM	930	0	VAL	A	422	-0.274	9.220	0.002	1.00	28.41
		ATOM	931	N	GLU	A	423	-1.803	7.670	0.571	1.00	31.53
		ATOM	932	CA	GLU	A	423	-1.311	7.558	1.935	1.00	35.99
		ATOM	933	CB	GLU	A	423	-2.190	6.594	2.737	1.00	40.37
		ATOM	934	CG	GLU	Α	423	-3.588	7.129	3.043	1.00	49.41
	25	ATOM	935	CD	GLU	A	423	-4.438	7.336	1.795	1.00	52.38
		ATOM	936	OE1	GLU	A	423	-5,349	8.188	1.835	1.00	56.91
4												54.53
ľŪ		ATOM	937	OE2	GLU	A	423	-4.200	6.652	0.776	1.00	
Ü		ATOM	938	C	GLU	A	423	0.127	7.043	1.886	1.00	34.83
ᆂ		MOTA	939	0	GLU	A	423	1.007	7.552	2.581	1.00	31.85
اله.	30	ATOM	940	N	ILE	A	424	0.369	6.038	1.050	1.00	30.17
æ		ATOM	941	CA	ILE	A	424	1.711	5.488	0.929	1.00	28.99
1		MOTA	942	CB	ILE	A	424	1.696	4.195	0.109	1.00	30.96
ii -		ATOM	943	CG2	ILE	A	424	3.108	3.588	0.068	1.00	27.20
		ATOM	944	CG1	ILE	A	424	0.671	3,230	0.725	1.00	30.77
	35	ATOM	945	CD1	ILE	A	424	0.810	1.787	0.291	1.00	34.69
	55	ATOM	946	C	ILE	A	424	2.700	6.483	0.312	1.00	28.21
IJ				o				3.856	6.551	0.735		
		MOTA	947		ILE	A	424				1.00	28.48
٠Ď		MOTA	948	N	PHE	A	425	2.253		-0.675	1.00	27.68
Ú	40	ATOM	949	CA	PHE	Α	425	3.119		-1.315	1.00	27.30
	40	ATOM	950	CB	PHE	A	425	2.381		-2.458	1.00	26.36
		ATOM	951	CG	PHE	Α	425	2.538		-3.798	1.00	27.22
		ATOM	952	CD1	PHE	Α	425	2.619	9.050	-4.958	1.00	27.36
		ATOM	953	CD2	PHE	Α	425	2.566	6.900	-3.905	1.00	27.89
		ATOM	954	CE1	PHE	A	425	2.721	8.443	-6.207	1.00	29.63
	45	MOTA	955	CE2	PHE	A	425	2.668	6.282	-5.149	1.00	27.28
		ATOM	956	CZ	PHE	A	425	2.745		-6.303	1.00	27.63
		ATOM	957	C	PHE	A	425	3.591		-0.312	1.00	25.66
		ATOM	958	0	PHE		425	4.757		-0.328	1.00	26.33
						A						
	50	MOTA	959	N	ASP	A	426	2.680	9.746	0.552	1.00	27.92
	50	MOTA	960	CA	ASP	A	426	2.984	10.759		1.00	28.88
		ATOM	961	CB	ASP	A	426	1.721	11.102	2.369	1.00	32.58
		MOTA	962	CG	ASP	A	426	0.781	12.034	1.613	1.00	37.47
		ATOM	963	OD1	ASP	A	426	-0.432	12.039	1.925	1.00	37.72
		MOTA	964	OD2	ASP	A	426	1.253	12.758	0.710	1.00	36.35
	55	ATOM	965	С	ASP	A	426	4.071	10.278	2.532	1.00	26.96
		ATOM	966	Ō	ASP	A	426	4.974	11.030	2.900	1.00	27.20
		ATOM	967	N	MET	A	427	3.978	9.022	2.947	1.00	25.76
			968	CA			427		8.468			25.89
		ATOM			MET	A		4.981		3.856	1.00	
	60	ATOM	969	CB	MET	Α	427	4.567	7.070	4.309	1.00	21.17
	60	ATOM	970	CG	MET	A	427	3.385	7.072	5.257	1.00	24.38
		MOTA	971	SD	MET	Α	427	3.153	5.489		1.00	34.32
		MOTA	972	CE	MET	A	427	2.173	4.637	4.910	1.00	21.03

ATOM 974 O MET A 427 7.363 8.760 3 ATOM 975 N LEU A 428 6.285 7.985 1 ATOM 976 CA LEU A 428 7.506 7.892 1 ATOM 977 CB LEU A 428 7.202 7.252 -0 10 ATOM 978 CG LEU A 428 6.910 5.747 -0 ATOM 979 CD1 LEU A 428 6.278 5.222 -1 ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 8.148 9.269 0 ATOM 983 N LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 16.281 0 ATOM 985 CB LEU A 429 7.837 11.642 0 ATOM 985 CG LEU A 429 6.331 12.411 -1 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 991 N ALA A 430 7.734 11.890 5 ATOM 992 CA ALA A 430 7.214 11.909 5 ATOM 993 CB ALA A 430 9.577 11.742 4 10 ATOM 995 O ALA A 430 9.577 11.742 4 11 ATOM 997 CA THR A 431 9.767 10.486 4 12 ATOM 998 CB THR A 431 10.973 8.323 3 12 ATOM 998 CB THR A 431 10.973 8.323 3	.176 1.00 19.24 .468 1.00 16.82 .131 1.00 16.23 .902 1.00 23.98 .034 1.00 23.06 .628 1.00 23.95 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.76
ATOM 975 N LEU A 428 6.285 7.985 1 ATOM 976 CA LEU A 428 7.506 7.892 1 ATOM 977 CB LEU A 428 7.202 7.252 -0 10 ATOM 978 CG LEU A 428 6.910 5.747 -0 ATOM 979 CD1 LEU A 428 6.278 5.222 -1 ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 8.148 9.269 0 ATOM 983 N LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 10.281 0 ATOM 984 CA LEU A 429 7.328 10.281 0 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 6.331 12.411 -1 ATOM 988 CD2 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 7.734 11.890 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 431 9.577 11.742 4 ATOM 995 CA ALA A 430 9.577 11.742 4 ATOM 995 CA ALA A 430 9.577 11.742 4 ATOM 995 CA ALA A 430 9.577 11.742 4 ATOM 995 CA ALA A 430 9.577 11.742 4 ATOM 995 CA ALA A 431 9.767 10.486 4 ATOM 997 CA THR A 431 10.973 8.323 3 ATOM 999 CG1 THR A 431 10.973 8.323 4 ATOM 999 CG1 THR A 431 10.973 8.323 4	.868 1.00 21.79 .075 1.00 22.99 .287 1.00 18.47 .176 1.00 19.24 .468 1.00 16.82 .902 1.00 23.98 .034 1.00 23.93 .462 1.00 23.93 .462 1.00 25.25 .003 1.00 27.45 .350 1.00 30.76 .751 1.00 34.75 .350 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 25.03 .462 1.00 25.03 .005 1.00 24.31 .0074 1.00 25.25
ATOM 976 CA LEU A 428 7.506 7.892 1 ATOM 977 CB LEU A 428 7.202 7.252 -0 10 ATOM 978 CG LEU A 428 6.910 5.747 -0 ATOM 979 CD1 LEU A 428 6.278 5.222 -1 ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 16.281 0 ATOM 984 CA LEU A 429 7.328 16.281 0 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 6.331 12.411 -1 ATOM 988 CD2 LEU A 429 7.449 12.552 -2 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.734 11.890 5 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 995 C ALA A 431 9.767 10.486 4 ATOM 997 CA THR A 431 10.973 8.323 4 ATOM 999 OG1 THR A 431 10.973 8.323 4 ATOM 999 OG1 THR A 431 10.973 8.323 4	.075 1.00 22.95 .287 1.00 18.45 .176 1.00 19.24 .468 1.00 16.83 .131 1.00 16.25 .902 1.00 23.98 .034 1.00 23.06 .628 1.00 26.25 .462 1.00 26.25 .476 1.00 30.78 .751 1.00 34.78 .350 1.00 31.98 .776 1.00 25.85 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.45 .185 1.00 26.15 .265 1.00 23.15 .265 1.00 25.05 .462 1.00 25.05 .462 1.00 25.05 .462 1.00 25.05 .005 1.00 24.35
ATOM 976 CA LEU A 428 7.506 7.892 1 ATOM 977 CB LEU A 428 7.202 7.252 -0 10 ATOM 978 CG LEU A 428 6.910 5.747 -0 ATOM 979 CD1 LEU A 428 6.278 5.222 -1 ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 16.281 0 ATOM 985 CB LEU A 429 7.328 16.281 0 ATOM 986 CG LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 6.331 12.411 -1 ATOM 988 CD2 LEU A 429 7.449 12.552 -2 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 9.442 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 ATOM 993 CB ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 995 C ALA A 431 9.767 10.486 4 ATOM 997 CA THR A 431 10.973 8.323 4 ATOM 999 OG1 THR A 431 10.973 8.323 4 ATOM 999 OG1 THR A 431 10.973 8.323 4	.287 1.00 18.47 .176 1.00 19.24 .468 1.00 16.82 .131 1.00 23.98 .034 1.00 23.95 .628 1.00 23.95 .462 1.00 26.29 .476 1.00 30.76 .751 1.00 34.75 .350 1.00 25.83 .793 1.00 26.42 .877 1.00 26.43 .185 1.00 26.13 .265 1.00 25.03 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM	.287 1.00 18.47 .176 1.00 19.24 .468 1.00 16.82 .131 1.00 23.98 .034 1.00 23.95 .628 1.00 23.95 .462 1.00 26.29 .476 1.00 30.76 .751 1.00 34.75 .350 1.00 25.83 .793 1.00 26.42 .877 1.00 26.43 .185 1.00 26.13 .265 1.00 25.03 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
10 ATOM 978 CG LEU A 428 6.910 5.747 -0 ATOM 979 CD1 LEU A 428 6.278 5.222 -1 ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 10.281 0 ATOM 985 CB LEU A 429 7.837 11.642 0 ATOM 986 CG LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 6.331 12.411 -1 ATOM 988 CD2 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 7.214 11.909 5 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 995 C ALA A 430 10.455 12.409 5 ATOM 995 C ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 10.973 8.323 3	.176 1.00 19.24 .468 1.00 16.82 .131 1.00 16.23 .902 1.00 23.98 .034 1.00 23.95 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.76 .751 1.00 34.75 .350 1.00 25.83 .793 1.00 26.45 .185 1.00 26.45 .185 1.00 25.03 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 980 CD2 LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 10.281 0 ATOM 985 CB LEU A 429 7.837 11.642 0 ATOM 986 CG LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 5.022 13.139 -1 20 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 7.214 11.909 5 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3	.468 1.00 16.82 .131 1.00 16.23 .902 1.00 23.98 .034 1.00 23.06 .628 1.00 23.93 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.78 .476 1.00 34.78 .350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.43 .877 1.00 26.43 .185 1.00 26.13 .265 1.00 23.13 .265 1.00 25.03 .462 1.00 25.03 .005 1.00 24.33
ATOM 981 C LEU A 428 8.204 5.010 0 ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 16.281 0 ATOM 984 CA LEU A 429 7.837 11.642 6 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 5.022 13.139 -1 20 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 8.201 12.333 4 10 ATOM 994 C ALA A 430 9.577 11.742 4 11 ATOM 995 O ALA A 430 9.577 11.742 4 12 ATOM 995 CA THR A 431 10.973 8.323 3 14 ATOM 997 CA THR A 431 10.973 8.323 3 15 ATOM 998 CB THR A 431 10.973 8.323 3	.131 1.00 16.23 .902 1.00 23.98 .034 1.00 23.06 .628 1.00 23.95 .462 1.00 26.29 .476 1.00 30.78 .476 1.00 34.78 .751 1.00 34.78 .751 1.00 25.83 .793 1.00 26.43 .877 1.00 26.43 .185 1.00 26.13 .265 1.00 23.13 .265 1.00 25.03 .462 1.00 25.03
ATOM 981 C LEU A 428 8.148 9.269 0 ATOM 982 O LEU A 428 9.366 9.416 1 15 ATOM 983 N LEU A 429 7.328 10.281 0 ATOM 984 CA LEU A 429 7.837 11.642 0 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 5.022 13.139 -1 20 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 7.214 11.909 5 D ATOM 994 C ALA A 430 7.214 11.909 5 ATOM 995 O ALA A 430 9.577 11.742 4 D ATOM 997 CA THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 10.973 8.323 3	.902 1.00 23.98 .034 1.00 23.06 .628 1.00 23.95 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.78 .751 1.00 34.79 .350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 25.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.31 .074 1.00 25.25
ATOM 982 O LEU A 428 9.366 9.416 1 ATOM 983 N LEU A 429 7.328 10.281 0 ATOM 984 CA LEU A 429 7.837 11.642 0 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 7.449 12.952 -2 ATOM 990 O LEU A 429 8.425 12.166 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 7.214 11.909 5 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 995 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 9.767 10.486 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4	.034 1.00 23.06 .628 1.00 23.95 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.76 .751 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03
15 ATOM 983 N LEU A 429 7.328 16.281 0 ATOM 984 CA LEU A 429 7.837 11.642 6 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 7.734 11.890 2 ATOM 993 CB ALA A 430 8.201 12.333 4 10 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 11 ATOM 995 O ALA A 430 9.577 11.742 4 12 ATOM 995 CA THR A 431 9.767 10.486 4 13 ATOM 997 CA THR A 431 11.046 9.825 4 14 ATOM 998 CB THR A 431 10.973 8.323 3 15 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4	.628 1.00 23.93 .462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.76 .751 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.31 .074 1.00 25.25
ATOM 984 CA LEU A 429 7.837 11.642 0 ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 D 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 D ATOM 995 O ALA A 430 9.577 11.742 4 D ATOM 996 N THR A 431 9.767 10.486 4 D ATOM 997 CA THR A 431 11.046 9.825 4 D ATOM 998 CB THR A 431 10.973 8.323 3 D ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4	.462 1.00 26.29 .003 1.00 27.45 .476 1.00 30.76 .751 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 985 CB LEU A 429 6.714 12.571 -0 ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.003 1.00 27.45 .476 1.00 30.78 .751 1.00 34.78 .350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 986 CG LEU A 429 6.331 12.411 -1 ATOM 987 CD1 LEU A 429 5.022 13.139 -1 20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.476 1.00 30.78 .751 1.00 34.75 .350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4	.751 1.00 34.79 .350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.45 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
20 ATOM 988 CD2 LEU A 429 7.449 12.952 -2 ATOM 989 C LEU A 429 8.425 12.166 1 ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 9.577 11.742 4 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 999 OG1 THR A 431 12.291 7.633 4	.350 1.00 31.96 .776 1.00 25.83 .793 1.00 26.43 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33
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ATOM 990 O LEU A 429 9.482 12.808 1 ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 10 ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.793 1.00 26.43 .877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 991 N ALA A 430 7.734 11.890 2 ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 11 ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.877 1.00 26.45 .185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33
ATOM 992 CA ALA A 430 8.201 12.333 4 25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.185 1.00 26.13 .265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
25 ATOM 993 CB ALA A 430 7.214 11.909 5 ATOM 994 C ALA A 430 9.577 11.742 4 ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.265 1.00 23.13 .462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 994 C ALA A 430 9.577 11.742 4 THE ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.462 1.00 25.03 .005 1.00 24.33 .074 1.00 25.25
ATOM 994 C ALA A 430 9.577 11.742 4	.005 1.00 24.31 .074 1.00 25.25
ATOM 995 O ALA A 430 10.455 12.409 5 ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	.074 1.00 25.25
ATOM 996 N THR A 431 9.767 10.486 4 ATOM 997 CA THR A 431 11.046 9.825 4 30 ATOM 998 CB THR A 431 10.973 8.323 3 ATOM 999 OG1 THR A 431 9.924 7.727 4 ATOM 1000 CG2 THR A 431 12.291 7.633 4	
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ATOM 1000 CG2 THR A 431 12.291 7.633 4	.727 1.00 20.27
•	.299 1.00 19.99
ATOM 1001 C THR A 431 12.103 10.477 3	.429 1.00 23.73
	.868 1.00 19.60
	.197 1.00 24.32
TIC .	.301 1.00 26.96
ATOM 1005 CB SER A 432 12.067 11.650 -0	
ATOM 1006 OG SER A 432 13.084 11.930 -1	
ind	.876 1.00 27.92
	.779 1.00 30.78
	.459 1.00 28.96
	.076 1.00 34.21
	.623 1.00 35.07
	.591 1.00 42.38
	.223 1.00 33.43
ATOM 1014 O SER A 433 14.152 15.473 4	.429 1.00 31.94
	.959 1.00 31.32
ATOM 1016 CA ARG A 434 13.980 13.236 6	.086 1.00 29.78
ATOM 1017 CB ARG A 434 13.468 11.994 6	819 1.00 29.84
50 ATOM 1018 CG ARG A 434 14.331 11.541 7	.983 1.00 32.17
ATOM 1019 CD ARG A 434 14.626 12.672 8	958 1.00 37.00
ATOM 1020 NE ARG A 434 15.321 12.169 10	.140 1.00 39.44
ATOM 1021 CZ ARG A 434 15.935 12.935 11	
ATOM 1022 NH1 ARG A 434 15.949 14.255 10	
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12	
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5	605 1.00 29.24
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5 ATOM 1025 O ARG A 434 16.352 13.563 6	.605 1.00 29.24 .173 1.00 29.72
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5 ATOM 1025 O ARG A 434 16.352 13.563 6 ATOM 1026 N PHE A 435 15.577 12.206 4	.605 1.00 29.24 .173 1.00 29.72 .561 1.00 28.95
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5 ATOM 1025 O ARG A 434 16.352 13.563 6 ATOM 1026 N PHE A 435 15.577 12.206 4 ATOM 1027 CA PHE A 435 16.901 11.935 4	.605 1.00 29.24 .173 1.00 29.72 .561 1.00 28.95
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5 ATOM 1025 O ARG A 434 16.352 13.563 6 ATOM 1026 N PHE A 435 15.577 12.206 4 ATOM 1027 CA PHE A 435 16.901 11.935 4 60 ATOM 1028 CB PHE A 435 16.777 11.045 2	.605 1.00 29.24 .173 1.00 29.72 .561 1.00 28.95 .000 1.00 30.59 .758 1.00 32.03
55 ATOM 1023 NH2 ARG A 434 16.528 12.381 12 ATOM 1024 C ARG A 434 15.413 13.014 5 ATOM 1025 O ARG A 434 16.352 13.563 6 ATOM 1026 N PHE A 435 15.577 12.206 4 ATOM 1027 CA PHE A 435 16.901 11.935 4 60 ATOM 1028 CB PHE A 435 16.777 11.045 2 ATOM 1029 CG PHE A 435 16.795 9.563 3	.605 1.00 29.24 .173 1.00 29.72 .561 1.00 28.95

	5	ATOM	1031	CD2	PHE	A	435	16.847	8.643	2,009	1.00	35.89
		ATOM	1032	CE1	PHE	A	435	16.771	7.709	4.622	1.00	35.36
		ATOM	1033	CE2	PHE	A	435	16.860	7.271	2.262	1.00	32.71
		ATOM	1034	CZ	PHE	A	435	16.821	6.807	3.570	1.00	33.24
		ATOM	1035	C	PHE	A	435	17.576	13.253	3.607	1.00	32.73
	10	MOTA	1036	ō	PHE	A	435	18.763	13.464	3.871	1.00	31.16
	10	ATOM	1037	N	ARG	A	436	16.812	14.137	2.975	1.00	33.37
		•							15.429	2.549	1.00	39.13
		ATOM	1038	CA	ARG	A	436	17,341				
		MOTA	1039	CB	ARG	A	436	16.282	16.206	1.756	1.00	40.42
		MOTA	1040	CG	ARG	A	436	16.846	17.317	0.877	1.00	43.09
	15	ATOM	1041	CD	ARG	A	436	15.750	17.960	0.040	1.00	44.53
		ATOM	1042	NE	ARG	A	436	14.826	16.955	-0.472	1.00	48.34
		ATOM	1043	CZ	ARG	A .	436	13.530	16.913	-0.184	1.00	48.81
		MOTA	1044	NH1	ARG	A	436	12.997	17.823	0.619	1.00	47.80
		ATOM	1045	NH2	ARG	A	436	12.769	15.950	-0.687	1.00	49.53
	20	MOTA	1046	C	ARG	A	436	17.792	16.250	3.753	1.00	38.10
		MOTA	1047	0	ARG	A	436	18.896	16.789	3.764	1.00	41.00
		ATOM	1048	N	MET	A	437	16.936	16.334	4.766	1.00	39.47
		ATOM	1049	CA	MET	A	437	17.257	17.087	5.975	1.00	38.20
		ATOM	1050	CB	MET	A	437	16.102	16.998	6.965	1.00	39.79
, ton,	25	ATOM	1051	c	MET	A	437	18.550	16.594	6.626	1.00	41.15
	23	ATOM	1052	Ô	MET	A	437	19.303	17.378	7.201	1.00	40.20
ıÖ.					MET		438	18.804	15.285	6.538	1.00	39.65
IJ		ATOM	1053	N		A						
(X)		ATOM	1054	CA	MET	A	438	20.011	14.693	7.117	1.00	39.70
ind-	20	ATOM	1055	CB	MET	A	438	19.787	13.221	7.463	1.00	39.90
14	30	ATOM	1056	CG	MET	A	438	18.694	12.938	8.460	1.00	41.94
ᇓ		ATOM	1057	SD	MET	A	438	18.747	11.188	8.880	1.00	43.12
1.		ATOM	1058	CE	MET	A	438	20.374	11.064	9.619	1.00	43.73
Ef		ATOM	1059	C	MET	A	438	21.176	14.756	6.142	1.00	38.03
		MOTA	1060	0	MET	A	438	22.321	14.503	6.522	1.00	38.39
ليا	• 35	ATOM	1061	N	ASN	A	439	20.886	15.070	4.895	1.00	37.64
لدا		MOTA	1062	CA	asn	A	439	21.924	15.118	3.895	1.00	35.68
		MOTA	1063	CB	ASN	A	439	23.019	16.125	4.243	1.00	40.98
Ü		ATOM	1064	CG	ASN	A	439	23.933	16.407	3.090	1.00	45.09
		ATOM	1065	OD1	ASN	A	439	23.528	16.295	1.934	1.00	47.16
1	40	ATOM	1066	ND2	ASN	A	439	25.197	16.733	3.372	1.00	46.87
		ATOM	1067	C	ASN	A	439	22.552	13.732	3.739	1.00	31.06
		ATOM	1068	ō	ASN	A	439	23.764	13.581	3.649	1.00	29.54
		ATOM	1069	N	LEU	A	440	21.692	12.698	3.704	1.00	31.47
		ATOM	1070	CA	LEU	A	440	22.161	11.326	3.579	1.00	31.63
	45	ATOM	1071	СВ	LEU	A	440	20.991	10.344	3.380	1.00	33.05
	43	ATOM	1072	CG	LEU	A	440	21.451	8.886	3.209	1.00	37.07
			1072	CD1	LEU		440	21.957	8.353	4.546	1.00	36,18
		ATOM				A					1.00	
		ATOM		CDS	LEU	A	440	20.318	8.032	2.682		32.33
	60	ATOM	1075	C	ĻEU	A	440	23.146	11.161	2.435	1.00	32.10
	50	ATOM	1076	0	LEU	A	440	22.925	11.671	1.333	1.00	32.76
		MOTA	1077	N	GLN	A	441	24.225	10.450	2.702	1.00	32.54
		ATOM	1078	CA	GLN	A	441	25.255	10.220	1.699	1.00	31.97
		ATOM	1079	CB	GLN	A	441	26.632	10.320	2.345	1.00	31.75
		ATOM	1080	CG	GLN	A	441	26.896	11.669	2.979	1.00	35.56
	55	ATOM	1081	CD	GLN	A	441	27.040	12.748	1.939	1.00	34.97
		MOTA	1082	OE1	GLN	A	441	27.985	12.782	1.167	1.00	35.51
		ATOM	1083	NE2	GLN	A	441	26.053	13.659	1.899		35.41
		ATOM	1084	C	GLN	A	441	25.100	8.860	1.038	1.00	34.08
		ATOM	1085	ō	GLN	A	441	24.540	7.931	1.625	1.00	30.73
	60	ATOM	1086	N	GLY	A	442	25.608		-0.187	1.00	32.78
		ATOM	1087	CA	GLY	A	442	25.528		-0.921	1.00	32.91
		ATOM	1087		GLY	A	442	26.181		-0.184	1.00	31.87
		7100	1000	_	GU I	^	446	20.101	0.350	A.	1.00	J L . U /

	5	MOTA	1089	0	GLY	A	442	25.642	5.245	-0.154	1.00	33.18
		MOTA	1090	N	GLU	A	443	27.340	6.603	0.416	1.00	30.60
		MOTA	1091	CA	GLU	Ą	443	28.057	5.567	1.150	1.00	30.85
		ATOM	1092	CB	GLU	A	443	29.376	6.111	1.704	1.00	32.74
		MOTA	1093	CG	GLU.	A	443	30.425	6.378	0.646	1.00	36.30
	10	ATOM	1094	CD	GLU	A	443	30.310	7.770	0.066	1.00	40.92
		ATOM	1095	OE1	GLŲ	A	443	29.677	8.630	0.716	1.00	42.27
		MOTA	1096	OE2	GLU	A	443	30.853	8.003	-1.038	1.00	46.82
		ATOM	1097	C	GLU	A	443	27.206	5.048	2,299	1,00	30.43
		MOTA	1098	0	GLU	A	443	27.211	3.854	2.595	1.00	28.11
	15	ATOM	1099	N	GLU	A	444	26.482	5.955	2.948	1.00	30.26
		ATOM .	1100	CA	GLU	Ą	444	25.619	5.589	4.067	1.00	28.18
		MOTA	1101	CB	GLU	A	444	25.147	6.843	4.797	1.00	26.32
		MOTA	1102	CĢ	GĻU	A	444	26.250	7.633	5.463	1.00	29.27
		MOTA	1103	CD	GLU	A	444	25.748	8.944	6.023	1.00	29.62
	20	ATOM	1104	OE1	GLU	A	444	25.006	9.652	5.304	1.00	32.00
		ATOM	1105	OE2	GLU	A	444	26.088	9.268	7,182	1.00	29.02
		ATOM	1106	C	GLU	A	444	24.403	4.813	3.572	1.00	26.93
		ATOM	1107	0	GLU	A	444	23.970	3.841	4.191	1.00	24.78
		ATOM	1108	N	PHE	A	445	23,861	5,256	2.443	1.00	27.79
	25	ATOM	1109	CA	PHE	A	445	22.688	4,633	1.853	1.00	24.50
Ü		MOTA	1110	CB	PHE	A	445	22.254	5.416	0.610	1.00	25.40
ΙŪ		ATOM	1111	CG	PHE	Α	445	21.372	4.634	-0.316	1.00	23.74
Ö		ATOM	1112	CD1	PHE	A	445	20.034	4.419	-0.004	1.00	23.00
1=		ATOM	1113	CD2	PHE	A	445	21.885	4.094	-1.489	1.00	22.37
· 5.1	30	ATOM	1114	CEl	PHE	A	445	19.215	3.670	-0.855	1.00	22.57
<u> </u>		ATOM	1115	CE2	PHE	A	445	21.079	3.349	-2.342	1.00	21.69
ing.		ATOM	1116	CZ	PHE	A	445	19.741	3.138	-2.023	1.00	22.25
EI .		ATOM	1117	С	PHE	Α	445	22.913	3.169	1.489	1.00	22.81
		ATOM	1118	0	PHE	A	445	22.083	2.316	1.796	1.00	22.92
Ū	35	ATOM	1119	N	VAL	A	446	24.019	2.868	0.822	1.00	22.46
ũ		ATOM	1120	CA	VAL	A	446	24.278	1.481	0.447	1.00	22.26
		MOTA	1121	CB	VAL	Α	446	25.522	1.360	-0.465	1.00	22.87
Ď		ATOM	1122	CG1	VAL	A	446	25.251	2.046	-1.799	1.00	22.57
Ē		ATOM	1123	CG2	VAL	A	446	26.735	1.968	0.217	1.00	22.38
163	40	ATOM	1124	C	VAL	A	446	24.467	0.614	1.694	1.00	23.68
		ATOM	1125	0	VAL	A	446	24.177	-0.586	1.680	1.00	22.91
		ATOM	1126	N	CYS	A	447	24.962	1.223	2.770	1.00	22.02
		ATOM	1127	CA	CYS	A	447	25.155	0.503	4.025	1.00	24.17
		ATOM	1128	CB	CYS	A	447	25.953	1.359	5.011	1.00	23.95
	45	MOTA	1129	SG	CYS	A	447	27.738	1.324	4.731	1.00	28.57
		ATOM	1130	C	CYS	A	447	23.781	0.178	4.618	1.00	21,14
		ATOM	1131	0	CYS	A	447	23.512	-0.960	5.002	1.00	19.37
		ATOM	1132	N	LEU	A	448	22.915	1.186	4.680	1.00	19.28
		ATOM	1133	CA	LEU	A	448	21.568	1.002	5.219	1.00	21.31
	50	ATOM	1134	CB	LEU	A	448	20.803	2.324	5.207	1.00	21.90
		ATOM	1135	CG	LEU	A	448	21.142	3.337	6.303	1.00	26.61
		MOTA	1136	CD1	LEU	A	448	20.328	4.594	6.072	1.00	27.74
		ATOM	1137	CD2	LEU	Α	448	20.827	2.760	7.672	1.00	24.03
		ATOM	1138	C	LEU	Α	448	20.766	-0.038	4.442	1.00	21.72
	55	ATOM	1139	0	LEU	A	448	20.006	-0.803	5.030	1.00	20.87
		MOTA	1140	N	LYS	Α	449	20.929	-0.055	3.119	1.00	21.42
		ATOM	1141	CA	LYS	A	449	20.205	-0.997	2.269	1.00	20.98
		ATOM	1142	CB	LYS	A	449	20.440	-0.659	0.788	1.00	21.55
		MOTA	1143	CG	LYS	A	449	19.438	-1.297		1.00	24.82
	60	MOTA	1144	CD	LYS	A	449	19.456	-0.613		1.00	23.33
		ATOM	1145	CE	LYS	A	449	20.816	-0.754		1.00	23.58
		ATOM	1146	NZ	LYS	A	449	20.741	-0.482	-3.698	1.00	28.77

	5	ATOM	1147	C	LYS	A	449	20.629	-2.436	2.548	1.00	20.33
		ATOM	1148	0	LYS	A	449	19.800	-3.345	2.552	1.00	20.57
		ATOM	1149	N	SER	A	450	21.924	-2.637	2.777	1.00	19.25
		ATOM	1150	CA	SER	A	450	22.451	-3.965	3.074	1.00	21.84
		ATOM	1151		SER		450	23.982	-3.953	3.041	1.00	20.59
	10			CB		Α						
	10	MOTA	1152	OG	SER	A	450	24.460	-3.975	1.702	1.00	29.78
		MOTA	1153	C	SER	A	450	21.975	-4.408	4.454	1.00	21.58
		ATOM	1154	0	SER	A	450	21.728	-5.590	4.682	1.00	20.06
		MOTA	1155	N	ILE	A	451	21.853	-3.449	5.369	1.00	22.20
		MOTA	1156	CA	ILE	A	451	21.385	-3.741	6.726	1.00	22.82
	15	ATOM	1157	CB	ILE	A	451	21.452	-2.476	7.616	1.00	19.62
		ATOM	1158	CG2	ILE	A	451	20.593	-2.658	8.886	1.00	21.11
		ATOM	1159	CG1	ILE	A	451	22.909	-2.210	7.999	1.00	22.20
		MOTA	1160	CD1	ILE	A	451	23.115	-0.960	8.850	1.00	24.48
		_								6.662		
	20	ATOM	1161	C	ILE	A	451	19.952	-4.250		1.00	21.82
	20	ATOM	1162	0	ILE	A	451	19.575	-5.184	7.369	1.00	21.72
		ATOM	1163	N	ILE	A	452	19.152	-3.642	5.795	1.00	20.18
		MOTA	1164	CA	ILE	A	452	17.763	-4.058	5.649	1.00	18.13
		MOTA	1165	CB	ILE	A	452	17.024	-3.145	4.627	1.00	19.72
		ATOM	1166	CG2	ILE	A	452	15.720	-3.792	4.169	1.00	18.99
	25	ATOM	1167	CG1	ILE	A	452	16.725	-1.788	5.282	1.00	18.33
Ō		ATOM	1168	CD1	ILE	A	452	16.284	-0.707	4.306	1.00	23.25
ĪŪ		ATOM	1169	C	ILE	A	452	17.725	-5.517	5.191	1.00	19.50
Ü		ATOM	1170	o	ILE	A	452	16.980	-6.340	5.737	1.00	17.60
		ATOM	1171	N	LEU	A	453	18.555	-5.844	4.209	1.00	19.23
	30	ATOM	1172	CA	LEU	A	453	18.589	-7.205	3.679	1.00	21.60
1	50											
4		MOTA	1173	CB	LEU	Α	453	19.624	-7.316	2.554	1.00	21.50
'V		MOTA	1174	CG	LEU	A	453	19.835	-8.729	1.989	1.00	25.06
£!		ATOM	1175	CD1	LEU	A	453	18.550	-9.250	1.364	1.00	25.27
		ATOM	1176	CD2	LEU	A	453	20.948	-8.694	0.953	1.00	24.73
L.	35	MOTA	1177	С	LEU	A	453	18.906	-8.245	4.746	1.00	19.41
لدا		MOTA	1178	0	LEU	A	453	18.198	-9.241	4.891	1.00	20.75
Ğ		MOTA	1179	N	LEU	A	454	19.966	-7.997	5.499	1.00	21.35
Ü		ATOM	1180	CA	LEU	A	454	20.410	-8.925	6.530	1.00	23.67
¹₩ .#4		ATOM	1181	CB	LEU	A	454	21.870	-8.625	6.878	1.00	20.69
Ü	40	ATOM	1182	CG	LEU	A	454	22.816	-8.584	5.673	1.00	24.92
		ATOM	1183	CD1	LEU	A	454	24.222	-8.268	6.132	1.00	24.27
		ATOM	1184		LEU	A	454	22.785	-9.913			22.84
		ATOM		C	LEU	A	454	19.572	-8.945	7.807	1.00	26.06
											1.00	
	45	ATOM	1186	0	LEU	A	454	19.413	-9.997			27.44
	45	MOTA	1187	N	ASN	A	455	19.011	-7.795	8.167	1.00	25.01
		ATOM	1188	CA	ASN	A	455	18.240	-7.681	9.400	1.00	26.10
		ATOM	1189	CB	ASN	A	455	18.439	~6.295		1.00	22.67
		MOTA	1190	CG	ASN	A	455	17.627	-6.109	11.264	1.00	26.67
		MOTA	1191	OD1	ASN	A	455	17.899	-6.751	12.270	1.00	25.16
	50	ATOM	1192	ND2	ASN	A	455	16.615	-5.246	11.212	1.00	20.73
		ATOM	1193	С	ASN	A	455	16.739	-7.957	9.418	1.00	25.78
		ATOM	1194	0	ASN	A	455	16.230	-8.516		1.00	29.22
		MOTA	1195	N	SER	A	456	16.027	-7.549	8.381	1.00	28.51
		ATOM		CA	SER	A	456	14.578	-7.704	8.371	1.00	32.52
	55	ATOM		CB	SER	A	456	14.019	-7.213	7.033	1.00	35.98
	<i>J J</i>											
		ATOM	1198	OG G	SER	A	456	14.266	-5.818	6.897	1.00	30.88
		ATOM	1199	C	SER	A	456	14.033	-9.086	8.711	1.00	33.00
		ATOM	1200	0	SER	A	456	13.112	-9.202	9.523	1.00	33.07
	<i>-</i>	MOTA	1201	N	GLY	A	457		-10.130	8.117	1.00	28.40
	60	ATOM		CA	GLY	A	457	14.115	-11.464	8.413	1.00	36.28
		MOTA	1203	С	GLY	A	457	15.055	-12.289	9.277	1.00	40.41
		MOTA	1204	0	GLY	A	457	14.831	-13.486	9.456	1.00	38.20

	5	ATOM	1205	N	VAL	A	458	16.095	-11.657	9.820	1.00	44.13
		MOTA	1206	CA	VAL	A	458	17.079	-12.356	10.647	1.00	51.09
		ATOM	1207	CB	VAL	A	458	18,214	-11.399	11.095	1.00	51.06
		MOTA	1208	CG1	VAL	A	458	17.688	-10.390	12.104	1.00	51.75
		ATOM	1209	CG2	VAL	A	458	19.365	-12.199	11.692	1.00	50.65
	10	ATOM	1210	C	VAL	A	458	16.513	-13.060	11.885	1.00	57.26
		MOTA	1211	0	VAL	A	458	17.085	-14.045	12.356	1.00	58.77
		ATOM	1212	N	TYR	A	459	15.401	-12.560	12.416	1.00	62.31
		ATOM	1213	CA	TYR	A	459	14.793	-13.177	13.592	1.00	68.49
		ATOM	1214	CB	TYR	A	459	14.293	-12.100	14.560	1.00	70.46
	15	ATOM	1215	CG	TYR	A	459	15.396	-11.196	15.069	1.00	71.73
		MOTA	1216	CD1	TYR	A	459	15.127	-9.888	15.462	1.00	71.93
		ATOM	1217	CE1	TYR	A	459	16.147	-9.045	15.898	1.00	72.60
		ATOM	1218	CD2	TYR	A	459	16.716	-11.644	15.128	1.00	72.77
		ATOM	1219	CE2	TYR	A	459	17.741	-10,812	15.560	1.00	73.55
	20	ATOM	1220	CZ	TYR ·	A	459	17.450	-9.514	15.941	1.00	72.93
		ATOM	1221	OH	TYR	A	459	18.467		16.351	1.00	74.56
		ATOM	1222	C	TYR	A	459	13.649			1.00	71.86
		ATOM	1223	0	TYR	A	459	13.380			1.00	73.11
		ATOM	1224	N	THR	A	460	12.981	-13.756		1.00	74.84
	25	ATOM	1225	CA	THR	A	460		-14.567		1.00	77.66
Ď		ATOM	1226	CB	THR	A	460		-13.900		1.00	76.69
IŪ.		ATOM	1227	C	THR	A	460		-15.938		1.00	80.26
ŭ		ATOM	1228	0	THR	A	460	11.684	-16.866	10.912	1.00	80.82
		ATOM	1229	N	PHE	A	461	13.762	-16.051	11.231	1.00	82.69
V	30	ATOM	1230	CA	PHE	A	461		-17.299		1.00	85.63
14		ATOM	1231	CB	PHE	A	461		-17.034		1.00	85.47
, ,		ATOM	1232	С	PHE	A	461		-18.288		1.00	87.52
1) 1)		ATOM	1233	0	PHE	A	461		-17.940		1.00	86.53
		ATOM	1234	N	LEU	A	462		-19.520		1.00	89.49
IJ	35	ATOM	1235	CA	LEU	A	462		-20.568		1.00	91.34
W		ATOM	1236	CB	LEU	A	462		-21.741		1.00	91.23
		ATOM	1237	C	LEU	A	462	15.016	-21.060	13.340	1.00	92.05
Ö		ATOM	1238	0	LEU	Α	462		-21.165		1.00	91.91
Ü		ATOM	1239	N	SER	A	463		-21.357		1.00	92.53
46.5	40	ATOM	1240	CA	SER	A	463	16.131	-21.855	15.358	1.00	92.96
		ATOM	1241	CB	SER	A	463		-21.483		1.00	91.67
		ATOM	1242	C	SER	A	463	16.189	-23.371	15.200	1.00	93.39
		ATOM	1243	0	SER	Α	463	15.156	-24.034	15.102	1.00	93.44
		ATOM	1244	N	SER	A	464		-23.917		1.00	93.82
	45	ATOM	1245	CA	SER	A	464	17.577	-25.355	15.015	1.00	93.85
		ATOM	1246	CB	SER	A	464		-25.769		1.00	93.74
		ATOM	1247	С	SER	A	464	18.997	-25.743	15.396	1.00	93.96
		ATOM	1248	0	SER	A	464	19.815	-26.074	14.535	1.00	93.65
		ATOM	1249	N	THR	A	465	19.279	-25.699	16.694	1.00	93.91
	50	ATOM	1250	CA	THR	A	465		-26.036		1.00	93.79
		ATOM	1251	CB	THR	A	465		-27.483		1.00	93.38
		ATOM	1252	C	THR	A	465		-25.085		1.00	93.27
		ATOM	1253	0	THR	A	465		-24.017		1.00	93.03
		ATOM		N	LEU	A	466		-25.479		1.00	93.26
	55	ATOM		CA	LEU	A	466		-24.665		1.00	92.34
		ATOM		CB	LEU	A	466		-25.338		1.00	91.59
		ATOM	1257	C	LEU	A	466		-24.461		1.00	92.18
		ATOM	1258	0	LEU	A	466		-23.545		1.00	92.67
		ATOM	1259	N	LYS	A	467		-25.323		1.00	91.28
	60	ATOM	1260	CA	LYS	A	467		-25.238		1.00	90.02
	•	ATOM	1261	CB	LYS	A	467		-26.287		1.00	89.93
		ATOM	1262		LYS	A	467		-23.841		1.00	88.35
				-				171	22,041			30.50

	5	MOTA	1263	0	LYS	A	467	23.032	-22.990	11.849	1.00	88.50
		MOTA	1264	N	SER	A	468	20.981	-23.610	12.536	1.00	86.02
		ATOM	1265	CA	SER	A	468	20.384	-22.315	12.252	1.00	84.10
		ATOM	1266	CB	SER	A	468	18.901	-22.333	12.620	1.00	84.08
		MOTA	1267	OG	SER	A	468	18.229	-23.378	11.937	1.00	83.03
	10	ATOM	1268	С	SER	A	468	21.109	-21.230	13.040	1.00	83.39
		MOTA	1269	0	SER	A	468	21,264	-20.105	12.565	1.00	83.48
		ATOM	1270	N	LEU	A	469	21.558	-21.579	14.242	1.00	82.04
		ATOM	1271	CA	LEU	A	469	22.276	-20.640	15.098	1.00	80.28
		ATOM	1272	CB	LEU	A	469	22.595	-21.294	16.436	1.00	79.81
	15	ATOM	1273	С	LEU	A	469	23.564	-20.174	14.419	1.00	79.18
		ATOM	1274	0	LEU	A	469	24.111	-19.122	14.756	1.00	78.61
		ATOM	1275	N	GLU	A	470	24.044	-20.969	13.466	1.00	76.69
		ATOM	1276	CA	GLU	A	470	25.256	-20.638	12,726	1.00	74.84
		ATOM	1277	CB	GLU	A	470	25.803	-21.880	12,032	1.00	74.12
	20	ATOM	1278	C	GLU	A	470	24.920			1.00	73.77
		ATOM	1279	0	GLU	A	470	25.617			1.00	72.94
		ATOM	1280	N	GLU	A	471	23.842		10.953	1.00	72.08
		ATOM	1281	CA	GLU	A	471	23.396		9.945	1.00	70.05
		ATOM	1282	CB	GLU	A	471	22.461		8.944	1.00	71.52
1==	25	ATOM	1283	CG	GLU	A	471	23.150		7.668	1.00	72.90
		ATOM	1284	CD	GLU	A	471	24.512		7.932	1.00	74.01
Q		ATOM	1285	OE1	GLU	A	471	25.469		7.198	1.00	74.22
IJ		ATOM	1286	OE2	GLU	A	471	24.626		8.878	1.00	75.18
Ø		ATOM	1287	C	GLU	A	471	22.667			1.00	67.33
į	30	ATOM	1288	Ö	GLU	A	471		-17.165		1.00	67.77
`		ATOM	1289	N	LYS	A	472		-17.319		1.00	62.63
		ATOM	1290	CA	LYS	A	472		-16.229		1.00	57.41
		ATOM	1291	CB	LYS	A	472		-16.777		1.00	58.74
2 i 2 marza		ATOM	1292	CG	LYS	Α	472		-15.776		1.00	60.32
	35	ATOM	1293	CD	LYS	A	472	19.271			1.00	60.73
W	-	ATOM	1294	CE	LYS	A	472	18,485			1.00	61.78
لنا		ATOM	1295	NZ	LYS	A	472	19.352			1.00	60.09
		ATOM	1296	C	LYS	A	472	23.662			1.00	53.42
۸ŢĴ		ATOM	1297	Ō	LYS	A	472	23.631			1.00	50.87
Ü	40	ATOM	1298	N	ASP	A	473	24.628	-15.949		1.00	47.52
		ATOM	1299	CA	ASP	A	473	25.732	-15.194		1.00	45.55
		ATOM	1300	CB	ASP	A	473		-16.094		1.00	50.48
		ATOM		CG	ASP	A	473		-15.885		1.00	55.50
		ATOM	1302	OD1	ASP	A	473		-15.436		1.00	58.06
	45	ATOM	1303	OD2	ASP	A	473		-16.170		1.00	59.81
		ATOM	1304	C	ASP	A	473		-14.611		1.00	42.62
		ATOM	1305	0	ASP	A	473		-13.506		1.00	42.10
		ATOM	1306	N	HIS	A	474		-15.364		1.00	38.05
		ATOM		CA	HIS	A	474		-14.904		1.00	37.25
	50	ATOM	1308	CB	HIS	A	474		-15.978	9.941	1.00	35.07
		ATOM	1309	CG	HIS	A	474		-15.523	8.653	1.00	37.36
		ATOM		CD2	HIS	A	474		-15.113	8.355	1.00	38.86
		ATOM	1311	ND1	HIS	A	474		-15.452	7.476	1.00	41.31
		ATOM		CE1	HIS	A	474		-15.020		1.00	40.86
	55	ATOM	1313	NE2	HIS	A	474		-14.807		1.00	44.49
		ATOM	1314	C	HIS	A	474		-13.640		1.00	36.68
		ATOM		0	HIS	A	474		-12.676		1.00	36.48
		ATOM		И	ILE	A	475		-13.652		1.00	35.93
		ATOM	1317	CA	ILE	A	475		-12.499	9.963	1.00	36.21
	60	ATOM	1317	CB	ILE	A	475		-12.797	9.868	1.00	36.31
	50	ATOM	1319		ILE	A	475		-11.527		1.00	38.19
		ATOM	1320		ILE	A	475		-13.874	8.813	1.00	36.97
		7100	1320	-G1	115	~	313	120	13.0/4	0.013	1.00	55.51

	5	MOTA	1321	CD1	ILE	A	475	21.528	-14.454	8,869	1.00	35.59
		MOTA	1322	C	ILE	A	475	24.893	-11.322	10,907	1.00	35.34
		ATOM	1323	0	ILE	A	475	25.092	-10.189	10.471	1.00	33,20
		ATOM	1324	N	HIS	A	476	24.857	-11.596	12.206	1.00	35.95
		ATOM	1325	CA	HIS	A	476		-10.540		1.00	35.06
	10	ATOM	1326	CB	HIS	A	476		-11.062		1.00	37.30
	10	ATOM	1327	CG	HIS	A	476		-11.068	-	1.00	43.06
											1.00	43.93
		MOTA	1328	CD2	HIS	A	476		-10.051			
		MOTA	1329	ND1	HIS	A	476		-12.230		1.00	45.60
		MOTA	1330	CEl	HIS	A	476		-11.928		1.00	47.56
	15	MOTA	1331	NE2	HIS	A	476		-10.613		1.00	46.21
		ATOM .	1332	C	HIS	A	476	26.438	-9.966	13.170	1.00	35.40
		atom	1333	0	His	A	476	26.634	-8.774	13.415	1.00	35.45
		MOŢA	1334	N	arg	A	477	27.420	-10.805	12.862	1.00	34.07
		ATOM	1335	CA	ARG	A	477	28.796	-10.331	12.795	1.00	34.18
	20	MOTA	1336	CB	ARG	A	477	29.757	-11.506	12.605	1.00	41.04
		MOTA	1337	CG	ARG	A	477	29.800		13.788	1.00	47.61
		ATOM	1338	CD	ARG	A	477	30.782			1.00	55.67
		ATOM	1339	NE	ARG	A	477	31.780			1.00	60.17
		ATOM	1340	CZ	ARG	A	477	32.780	•		1.00	61.98
100.	25	ATOM	1341	NH1	ARG	A	477	32.700			1.00	64.29
	2.3											
Ø		ATOM	1342	NH2	ARG	A	477	33.643			1.00	62.79
ľŪ		ATOM	1343	C	ARG	A	477	28.906		11.621	1.00	30.77
Ü		ATOM	1344	0	ARG	A	477	29.462		11.753	1.00	33.59
ᆂ		MOTA	1345	N	VAL	A	478	28.369		10.475	1.00	27.65
1	30	MOTA	1346	CA	VAL	Α	478	28.389	-8.930	9.280	1.00	27.07
빠		ATOM	1347	CB	VAL	A	478	27.658	-9.605	8.100	1.00	28.00
		MOTA	1348	CG1	VAL	A	478	27.672	-8.678	6.890	1.00	25.83
a!	•	MOTA	1349	CG2	VAL	Α	478	28.319	-10.933	7,761	1.00	31.66
		ATOM	1350	C	VAL	A	478	27.689	-7.610	9.584	1.00	26.92
لِبا	35	ATOM	1351	0	VAL	A	478	28.216	-6,536	9.294	1,00	26.97
		ATOM	1352	N	LEU	A	479	26.499	-7.702	10.171	1.00	25.74
		ATOM	1353	CA	LEU	A	479	25.727	-6.516	10.530	1.00	27.97
ارية) حد		ATOM	1354	CB	LEU	A	479	24.474		11.324	1.00	25.55
لية		ATOM	1355	CG	LEU	A	479	23.211		10.517	1.00	29.01
·	40	ATOM	1356	CD1	LEU	A	479	22.056		11.481	1.00	27.05
	. •	ATOM	1357	CD2	LEU	A	479	22.864	-6.063	9.584	1.00	24.92
		ATOM	1358	C	LEU	A	479	26.592		11.369	1.00	25.39
		ATOM	1359		LEU	A	479	26.595		11.158	1.00	27.39
		ATOM	1360		ASP		480	27.324		12.320	1.00	
	45			N		A						26.04
	42	ATOM	1361	CA	ASP	A	480	28.206		13.193	1.00	27.32
		ATOM	1362	CB	ASP	A	480	28.878	-6.305		1.00	26.67
		ATOM	1363	CG	ASP	A	480	27.990		15.417	1.00	31.02
		ATOM	1364	OD1	ASP	A	480	28.355	-7.505		1.00	31.50
		ATOM	1365	OD2	ASP	A	480	26.935	-5.944	15.580	1.00	32.21
	50	MOTA	1366	С	ASP	A	480	29.283	-4.699	12.361	1.00	25.59
		ATOM	1367	0	ASP	A	480	29.672	-3.562	12.636	1.00	27.15
		MOTA	1368	N	LYS	A	481	29.767	-5.394	11.340	1.00	25.17
		ATOM	1369	CA	LYS	A	481	30.794	-4.830	10.477	1.00	24.93
		MOTA		CB	LYS	A	481	31.306		9.512		28.42
	55	ATOM		CG	LYS	A	481	32.158		10.188	1.00	35.59
		ATOM		CD	LYS	A	481	32.894		9.157	1.00	41.21
		ATOM		CE	LYS	A	481	33.883		8.350		41.48
		ATOM		NZ					-6.388		1.00	
					LYS	A	481	34.954				43.22
	60	ATOM		C	LYS	A	481	30.260	-3.635		1.00	26.12
	00	ATOM		0	LYS	A	481	30.979	-2.657		1.00	23.73
		ATOM	1377		ILE	A	482	28.996	-3.705		1.00	25.44
		ATOM	1378	CA	ILE	A	482	28.421	-2.598	8.545	1.00	27.69
								1.50				

	5	ATOM	1379	CB	ILE	A	482	27.066	-2.983	7.915	1.00	27.59
		MOTA	1380	CG2	ILE	A	482	26.470	-1.788	7.183	1.00	25.97
		ATOM	1381	CG1	ILE	A.	482	27.274	-4.131	6.922	1.00	23.80
		ATOM	1382	CD1	ILE	A	482	26.000	-4.838	6.533	1.00	21.30
		ATOM	1383	C	ILE	A	482	28.253	-1.408	9.481	1.00	27.33
	10	ATOM	1384	ō	ILE	A	482	28.312	-0.256	9.045	1.00	28.55
	. •	ATOM	1385	N	THR	A	483	28.046		10.768	1.00	25,03
		ATOM	1305	CA	THR	A	483	27.905		11.760	1.00	23.62
								27.535		13.154	1.00	22.18
		MOTA	1387	CB	THR	A	483					
		MOŢA	1388	0G1	THR	A	483	26.181		13.133	1.00	25.39
	15	MOTA	1389	CG2	THR	A	483	27.673		14.226	1.00	25.84
		ATOM.	1390	C	THR	A	483	29.257		11.858	1.00	23.04
		ATOM	1391	0	THR	A	483	29.331	1.306	11.846	1.00	23.55
		mota	1392	N	ASP	A	484	30.324	-0.714	11.960	1,00	22.24
		ATOM	1393	CA	ASP	A	484	31.674	-0.152	12.039	1.00	25.48
	20	ATOM	1394	CB	ASP	A	484	32.718	-1.273	12.107	1.00	26.88
		ATOM	1395	CG	ASP	A	484	32.629	-2.083	13.394	1,00	32.52
		ATOM	1396	OD1	ASP	A	484	32.002		14.366	1.00	33.68
		ATOM	1397	OD2	ASP	A	484	33.185		13.434	1.00	34.63
		ATOM	1398	C	ASP	A	484	31.930		10.807	1.00	25.16
	25		1399	0		A	484	32.481		10.807	1.00	26.05
	23	ATOM			ASP							
ú		ATOM	1400	N	THR	A	485	31.505	0.226	9.645	1.00	28.96
IU		MOTA	1401	CA	THR	A	485	31.689	0.960	8.394	1.00	26.63
Ü		ATOM	1402	CB	THR	A	485	31.124	0.166	7.197	1.00	26.12
-		ATOM	1403	OG1	THR	A	485	31.753	-1.123	7.132	1.00	24.30
·	30	MOTA	1404	CG2	THR	A	485	31.381	0.907	5.898	1.00	23.31
±		MOTA	1405	C	THR	A	485	30.994	2.318	8.468	1.00	28.90
		ATOM	1406	0	THR	A	485	31.583	3.354	8.137	1.00	27.26
		ATOM	1407	N	LEU	A	486	29.743	2.310	8.915	1.00	24,76
() ()		ATOM	1408	CA	LEU	A	486	28.973	3.537	9.027	1.00	26.19
	35	ATOM	1409	CB	LEU	A	486	27.567	3.233	9.547	1.00	27.27
IJ		ATOM	1410	CG	LEU	A	486	26.508	2.921	8.486	1.00	23.50
لدا		ATOM	1411	CD1	LEU	A	486	25.210	2.550	9.183	1.00	22.03
		ATOM	1412	CD2	LEU	A	486	26.309	4.128	7.577	1.60	21.35
ij		ATOM	1413	C	LEU	A	486	29.662	4.519	9.960	1.00	27.36
Ü	40	ATOM	1414	0	LEU	A	486	29.745	5.710	9.669	1.00	25.87
	70					- +						
		ATOM	1415	N	ILE	A	487	30.151		11.088	1.00	27.88
		ATOM	1416		ILE	A	487	30.843		12.055	1.00	28.40
		MOTA	1417		ILE	A	487	31.203		13.332	1.00	26.74
		ATOM	1418	CG2	ILE	A	487	32.255		14.154	1.00	27.54
	45	ATOM	1419	CG1	ILE	A	487	29.937	3.813	14.163	1.00	25.93
		ATOM	1420	CD1	ILE	A	487	29.237	5.088	14.624	1.00	23.42
		ATOM	1421	C	ILE	A	487	32.125	5.393	11.412	1.00	28.89
		ATOM	1422	0	ILE	A	487	32.497	6.554	11.602	1.00	29.85
		MOTA	1423	N	HIS	A	488	32.791		10.649	1.00	29.71
	50	ATOM	1424		HIS	A	488	34.031	4.898	9.967	1.00	34.12
		ATOM	1425	CB	HIS	A	488	34.585	3.691	9.207	1.00	36.61
		ATOM	1426	CG	HIS		488	35.799	3.997	8.385	1.00	42.74
•						A						
		MOTA	1427	CD2	HIS	A	488	35.970	4.089	7.045	1.00	43.12
	56	ATOM	1428	ND1	HIS	A	488	37.034	4.239	8.946	1.00	43.13
	55	ATOM	1429	CE1	HIS	A	488	37.913	4.466	7.987	1.00	43.40
		ATOM		NE2	HIS	A	488	37.293	4.381	6.825	1.00	45.63
		ATOM	1431	С	HIS	A	488	33.799	6.051	8.998	1.00	32.74
		ATOM	1432	0	HIS	A	488	34.577	7.004	8.955	1.00	31.06
		ATOM	1433	N	LEU	A	489	32.721	5.958	8.223	1.00	33.56
	60	ATOM	1434	CA	LEU	A	489	32.384	6.992	7.258	1.00	30.78
		ATOM	1435	CB	LEU	A	489	31.145	6.587	6.464	1.00	34.67
		ATOM	1436		LEU	A	489	31.310	5.353	5.574	1.00	34.73
		- · •			- _			4-1				-

	5	MOTA	1437	CD1	LEU	A	489	29.945	4.856 5.125	1.00	33.21
		ATOM'	1438	CD2	LEU	A	489	32.183	5.701 4.378	1.00	35.92
		ATOM	1439	C	LEU	A	489	32.124	8.320 7.954	1.00	33.97
		ATOM	1440	0	LEU	A	489	32.587	9.365 7.507	1.00	33.22
		ATOM	1441	N	MET	A	490	31.387	8.274 9.058	1.00	31.33
	10	ATOM	1442	CA	MET	A	490	31.056	9.482 9.801	1.00	30.61
		ATOM	1443	CB	MET	A	490	30.000	9.161 10.862	1.00	32.34
				CG		A	490	28.607	8.940 10.289	1.00	30.71
		MOTA	1444		MET				8.247 11.496	1.00	31.14
		MOTA	1445	SD	MET	A	490	27.457			
	1.5	MOTA	1446	CE	MET	A	490	26.321	7.408 10.418	1.00	30.36
	15	ATOM	1447	C	MET	A	490	32.287	10.108 10.455	1.00	32.22
		ATOM	1448	0	MET	A	490	32.412	11.330 10.517	1.00	28.25
		ATOM	1449	N	ALA	A	491	33.184	9.262 10.949	1.00	33.81
		MOTA	1450	CA	ALA	A	491	34.407	9.730 11.585	1.00	39.92
		MOTA	1451	CB	ALA	A	491	35.168	8.554 12.185	1.00	37.22
	20	ATOM	1452	С	ALA	A	491	35.275	10.445 10.550	1.00	42.68
		ATOM	1453	0	ALA	A	491	35.865	11.487 10.839	1.00	45.32
		ATOM	1454	N	LYS	Α	492	35.339	9.876 9.347	1.00	44.39
		ATOM	1455	CA	LYS	A	492	36.122	10.440 8.248	1.00	44.80
		ATOM	1456	CB	LYS	A	492	36.136	9.477 7.052	1.00	46.96
;=4	25	ATOM	1457	CG	LYS	A	492	37.490	8.840 6.744	1.00	47.20
j		ATOM	1458	CD	LYS	A	492	37.390	7.830 5.595	1.00	45.71
Q		ATOM	1459	CE	LYS	A	492	38.631	6.937 5.518	1.00	45.55
IJ		ATOM	1460	NZ	LYS	A	492	38.357	5.577 4.948	1.00	36.28
Ø		ATOM	1461	C	LYS	A	492	35.534	11.780 7.809	1.00	45.61
[-	30	ATOM	1462	0	LYS	A	492	36.227	12.604 7.215	1.00	46.18
	30		1463	N	ALA	A	493	34.254	11.992 8.100	1.00	43.75
		ATOM					493	33.590	13.238 7.728	1.00	42.42
, ~ į		ATOM	1464	CA	ALA	A,					
8!		ATOM	1465	CB	ALA	A	493	32.097	13.001 7.528	1.00	40.92
	26	ATOM	1466	C	ALA	A	493	33.816	14.305 8.796	1.00	41.78
IJ	35	ATOM	1467	0	ALA	A	493	33.277	15.410 8.707	1.00	40.76
W		ATOM	1468	N	GLY	A	494	34.604	13.960 9.811	1.00	41.01
		ATOM	1469	CA	GLY	A	494	34.903	14.904 10.873	1.00	41.63
Ð		ATOM	1470	C	GLY	A	494	33.857	15.060 11.965	1.00	41,18
Ď		ATOM	1471	0	GLY	A	494	33.916	16.011 12.747	1.00	38.22
. 22	4 0	ATOM	1472	N	LEU	A	495	32.905	14.138 12.043	1.00	39.53
		ATOM	1473	CA	LEU	A	495	31.876	14.248 13.068	1.00	38.91
		MOTA	1474		LEU	. A	495	30.713	13,304 12.769	1.00	39.20
		ATOM	1475	CG	LEU	A	495	29.540	13.901 11.988	1.00	40.73
		ATOM	1476	CD1	LEU	A	495	29.976	14.170 10.553	1.00	37.80
	45	ATOM	1477	CD2	LEU	A	495	28,349	12.943 12.026	1.00	40.94
		ATOM	1478	C	LEU	A	495	32.461	13,923 14.431	1.00	36.01
		ATOM	1479	0	LEU	A	495	33.347	13.074 14.544	1.00	34.85
		ATOM	1480	N	THR	A	496	31.979	14.604 15.459	1.00	37.52
		ATOM	1481	CA	THR	A	496	32.462	14.350 16.812	1.00	35.45
	50	ATOM	1482	CB	THR	A	496	31.925	15.375 17.829	1.00	37.55
	-	ATOM	1483	OG1	THR	A	496	30.498	15.263 17.908	1.00	32.93
		ATOM	1484	CG2	THR	A	496	32.315	16.797 17.434	1.00	36.16
			1485	C	THR		496	31.933	12.987 17.210	1.00	35.67
		ATOM				A					
	55	ATOM	1486	0	THR	A	496	31.081	12.427 16.521	1.00	34.34
	دد	ATOM	1487	N	LEU	A	497	32.429	12.452 18.319	1.00	34.88
		ATOM	1488	CA	LEU	A	497	31.965	11.151 18.786	1.00	35.67
		MOTA	1489	CB	LEU	A	497	32.689	10.760 20.074	1.00	41.10
		ATOM	1490	CG	LEU	A	497	33.714	9.640 19.896	1.00	45.27
		ATOM	1491	CD1	LEU	A	497	34.755	9.692 21.008	1.00	45.09
	60	ATOM	1492	CD2	LEU	A	497	32.988	8.305 19.884	1.00	47.77
		ATOM	1493	C	LEU	A	497	30.455	11.198 19.026	1.00	33.72
		MOTA	1494	0	LEU	A	497	29.712	10.350 18.534	1.00	33.20
								165			

	5	ATOM	1495	N	GLN	Α	498	30.006	12.202 19.773	1.00	30.82
		MOTA	1496	CA	GLN	A	498	28.586	12.348 20.062	1.00	31.47
		ATOM	1497	CB	GLN	A	498	28.344	13.566 20.951	1.00	30.51
		MOTA	1498	CG	GLN	A	498	26.894	13.796 21.341	1.00	34.38
	•	ATOM	1499	CD	GLN	A	498	26.712	15.130 22.015	1.00	38.60
	10	ATOM	1500	OE1	GLN	A	498	27.363	16.112 21.686	1.00	42.92
		ATOM	1501	NE2	GLN	A	498	25.809	15.176 23.008	1.00	40.02
		ATOM	1502	С	GLN	A	498	27.776	12.476 18.773	1.00	30.47
		ATOM	1503	Ö	GLN	A	498	26.682	11.927 18.665	1.00	30.85
		MOTA	1504	N	GLN	A	499	28.311	13.196 17.793	1.00	29.52
	15	MOTA	1505	CA	GLN	A	499	27.603	13.362 16.524	1.00	30.24
		ATOM	1506	СВ	GLN	A	499	28.292	14.420 15.661	1.00	30.20
		MOTA	1507	CG	GLN	A	499	28.135	15.840 16.191	1.00	31.60
		ATOM	1508	CD	GLN	A	499	28.930	16.849 15.389	1.00	31.61
		ATOM	1509	OE1	GLN	A	499	29.956	16.518 14.795	1.00	30.66
	20	ATOM	1510	NE2	GLN	A	499	28.457	18.089 15.364	1.00	34.17
		ATOM	1511	C	GLN	A	499	27.529	12.047 15.753		29.40
		ATOM	1512	Ô	GLN	A	499	26.567	11.793 15.032		30.04
		ATOM	1513	N	GLN	A	500	28.550	11.214 15.903		25.67
		ATOM	1514	CA	GLN	A	500	28.577	9.937 15.216	•	29.30
i and	25	ATOM	1515	СВ	GLN	A	500	29.933	9.276 15.406		31.52
		ATOM	1516	CG	GLN	A	500	31.012	9.839 14.508		33.05
Q		ATOM	1517	CD	GLN	A	500	32.371	9.370 14.930		34.84
ĬŮ		ATOM	1518	OE1	GLN	A	500	32.612	8.194 15.141		36.47
D		ATOM	1519	NE2	GLN	A	500	33.301	10.324 15.082		38.25
	30	ATOM	1520	C	GLN	A	500	27.459	9.017 15.711		27.98
	• •	ATOM	1521	ō	GLN	A	500	26.700	8.469 14.908		24.84
		ATOM	1522	N	HIS	A	501	27.357	8.864 17.029		26.20
1.4		ATOM	1523	CA	HIS	A	501	26.327	8.021 17.631		27.63
51 1===		ATOM	1524	СВ	HIS	A	501	26.535	7.919 19.145		27.97
	35	ATOM	1525	CG	HIS	A	501	27.892	7.420 19.535		34.27
, U		ATOM	1526	CD2	HIS	A	501	28.726	6.540 18.931		36.10
Ш		ATOM	1527	ND1	HIS	A	501	28.541	7.844 20.676		31.81
		ATOM	1528	CE1	HIS	A	501	29.716	7.244 20.758		34.89
٠Ď		ATOM	1529	NE2	HIS	A	501	29.854	6.448 19.712		37.46
Ū	40	ATOM	1530	C	HIS	A	501	24.935	8.572 17.348		24.93
		ATOM	1531	Ö	HIS	A	501	23.998	7.815 17.107		26.73
		ATOM	1532	N	GLN	A	502	24.796	9.892 17.379		22.79
		ATOM	1533	CA	GLN	A	502	23.504	10.498 17.119	1.00	26.14
	•	ATOM	1534	CB	GLN	A	502	23.554	12.006 17.371	1.00	22.36
	45	ATOM	1535	CG	GLN	A	502	23.460	12.378 18.848	1.00	26.19
	-	ATOM	1536	CD	GLN	A	502	23.589	13.875 19.089	1.00	28.67
		ATOM	1537	OE1	GLN	A	502	23.632	14.663 18.149	1.00	28.40
		ATOM	1538	NE2	GLN	A	502	23.651	14.268 20.355	1.00	24.72
		ATOM	1539	C	GLN	A	502	23.056	10.221 15.685	1.00	26.19
	50	ATOM	1540	Ō	GLN	A	502	21.913	9.822 15.453	1.00	24.09
		ATOM	1541	N	ARG	A	503	23.955	10.429 14.727	1.00	24.88
	•	ATOM	1542	CA	ARG	A	503	23.630	10.196 13.326	1.00	25.25
		ATOM	1543	CB	ARG	A	503	24.772	10.668 12.418	1.00	27.63
		ATOM	1544	CG	ARG	A	503	24.432	10.563 10.932	1.00	28.75
	55	ATOM	1545	CD	ARG	A	503	25.479	11.222 10.056	1.00	27.72
	J J	ATOM	1546	NE	ARG	A	503	25.072	11.214 8.654	1.00	29.35
		MOTA	1547	CZ	ARG	A	503	24.279	12.126 8.105	1.00	25.84
		ATOM	1548	NH1	ARG	A	503	23.804	13.120 8.840	1.00	27.35
		ATOM	1549	NH2	ARG	A	503	23.962	12.044 6.820	1.00	30.63
	60	ATOM	1550	C	ARG	A	503	23.347	8.716 13.065	1.00	24.53
		ATOM	1551	0	ARG	A	503	22.425	8.375 12.321	1.00	25.90
		ATOM	1552		LEU	A	504	24.143	7.841 13.672	1.00	23.00
				••		••	202	176	13.0/2		

	5	MOTA	1553	CA	LEU	A	504	23.953	6.406	13.496	1.00	22.60
		ATOM	1554	CB	LEU	A	504	24.971	5.621	14.323	1.00	25.43
		ATOM	1555	CG	LEU	A	504	24.781	4.100	14.344	1.00	25.23
		ATOM	1556	CD1	LEU	A	504	25.166		12.991	1.00	28.52
		ATOM	1557	CD2	LEU	A	504	25.627		15.444	1.00	22.14
	10	ATOM	1558	C	LEU	A	504	22.541		13.934	1.00	22.84
		ATOM	1559	Ö	LEU	A	504	21.846		13.245	1.00	21.51
		ATOM	1560	И	ALA	A	505	22.120		15.083	1.00	20.16
		ATOM	1561		ALA	A	505 505	20.784		15.585	1.00	21.08
				CA								
	16	ATOM	1562	CB	ALA	A	505	20.605	•	16.980	1.00	23,57
	15	ATOM	1563	C	ALA	A	505	19.738		14.628	1.00	20.20
		ATOM	1564	0	ALA	A	505	18.754		14.293	1.00	17.31
		MOTA	1565	N	GLN	A	506	19.954		14.184	1.00	22.11
		ATOM	1566	CA	GLN	A	506	19.013		13.277	1.00	21.70
		ATOM	1567	CB	GLN	A	506	19.502		12.903	1.00	22.26
	20	MOTA	1568	CG	GLN	A	506	19.240		13.975	1.00	25.84
		MOTA	1569	CD	GLN	A	506	20.187	12.333	13.857	1.00	32.88
		MOTA	1570	OE1	GLN	A	506	20.704	12.614	12.777	1.00	31.23
		ATOM	1571	NE2	GLN	A	506	20.423	13.025	14.968	1,00	32.97
		ATOM	1572	C	GLN	A	506	18.813	7.881	12.016	1.00	23.57
	25	MOTA	1573	0	GLN	A	506	17.684	7.715	11.550	1.00	21.83
		ATOM	1574	N	LEU	A	507	19.905	7.354	11.474	1.00	19.98
Q		ATOM	1575	CA	LEU	A	507	19.827		10.263	1.00	22.03
IU		ATOM	1576	CB	LEU	A	507	21.231	6.244	9.725	1.00	23.02
Ø		ATOM	1577	CG	LEU	A	507	22.026	7.457	9,225	1.00	25.80
ļub	30	ATOM	1578	CD1	LEU	A	507	23.371	6.994	8.713	1.00	27.67
'\		MOTA	1579	CD2	LEU	A	507	21.264	8.176	8.130	1.00	25.62
-		ATOM	1580	C	LEU	A	507	19.090		10.496	1.00	22.35
14		ATOM	1581	0	LEU	A	507	18.242	4.825	9.695	1.00	19.33
Ħ		ATOM	1582	Ŋ	LEU	A	508	19.402		11.592		21.29
	35	ATOM	1583		LEU		508				1.00	
إبرا	55			CA		A		18.755		11.881	1.00	20.72
IJ		ATOM	1584	CB	LEU	A	508	19.501		13.001	1.00	22.29
		ATOM	1585	CG	LEU	A	508	20.977		12.678	1.00	24.70
Ū		ATOM	1586	CD1	LEU	A	508	21.642		13.814	1.00	21.37
Ō	40	ATOM	1587	CD2	LEU	A	508	21.095		11.367	1.00	27.88
	40	MOTA	1588	C	LEU	A	508	17.279		12.239	1.00	19.14
		ATOM	1589	0	LEU	A	508	16.498		12.003	1.00	17.80
		ATOM	1590		LEU	A	509	16.895		12.815		
		ATOM	1591		LEU	A	509	15.495		13.173	1.00	20.14
	·	MOTA	1592	ÇB	LEU	A	509	15.347		13.999	1.00	20.28
	45	ATOM	1593	CG	LEU	A	509	15.710		15.479	1.00	21.35
		ATOM	1594	CD1	LEU	A	509	15.354		16.263	1.00	19.29
		ATOM	1595	CD2	LEU	A	509	14.989	4.656	16.038	1.00	20.84
		ATOM	1596	C	LEU	A	509	14.681	4.841	11.885	1.00	21.69
		ATOM	1597	0	LEU	A	509	13.493	4.514	11.854	1.00	22.40
	50	ATOM	1598	N	ILE	A	510	15.343	5.270	10.815	1.00	20.22
		ATOM	1599	CA	ILE	A	510	14.710	5.397	9.508	1.00	20.40
		MOTA	1600	CB	ILE	A	510	15.720	5.946	8.464	1.00	28.34
		ATOM	1601	CG2	ILE	A	510	15.208	5.710	7.056	1.00	32.54
		ATOM	1602	CG1	ILE	A	510	15.965	7.438	8.696	1.00	28.23
	55	ATOM	1603	CD1	ILE	A	510	14.789	8,189	9.288	1.00	33.16
	•	ATOM	1604	C	ILE	A	510	14.210	4.025	9.049	1.00	23.21
		ATOM	1605	Ö	ILE	A	510	13.120	3.906	8.474	1.00	21.16
		ATOM	1606	N	LEU	A	511	14.998	2.989	9.323	1.00	18.38
		ATOM	1607	CA	LEU	A	511	14.633	1.634	8.917	1.00	20.10
	60	ATOM	1608	CB	LEU	A	511	15.754	0.656	9.267	1.00	20.10
		ATOM	1609	CG	LEU	A	511	17.128	1.022	8.692	1.00	26.03
		ATOM	1610		LEU	A						
		ATOM	1010		TEO.	^	511	18.024	-0.206	8.724	1.00	22.68

	5	ATOM	1611	CD2	LEU	A	511	16.996	1.544	7.267	1.00	26.00
		ATOM	1612	С	LEU	A	511	13.326	1.181	9.543	1.00	18.51
		ATOM	1613	0	LEU	A	511	12.663	0.283	9.025	1.00	17.40
		ATOM	1614	N	SER	A	512	12.963		10.664	1.00	18.68
		ATOM	1615	CA	SER	A	512	11.718		11.331	1.00	18.67
	10	ATOM	1616	CB	SER	A	512	11.661		12.720	1.00	18.58
	10	ATOM	1617	OG	SER	A	512	10.315		13.165	1.00	27.92
							512					
		ATOM	1618	C	SER	A		10.572		10.464	1.00	18.43
		ATOM	1619	0	SER	A	512	9.584		10.236	1.00	13.91
		ATOM	1620	N	HIS	A	513	10.713	3.228	9.982	1.00	18.95
	15	ATOM	1621	CA	HIS	A	513	9.698	3.831	9.124	1.00	20.82
		ATOM	1622	CB	HIS	A	513	10.013	5.315	8.894	1.00	24.36
		ATOM	1623	CG	HIS	A	513	9.923		10.136	1.00	32.13
		ATOM	1624	CD2	HIS	A	513	8.863		10.734	1.00	35.29
		MOTA	1625	ND1	HIS	A	513	11.010	6.391	10.949	1.00	35.00
	20	ATOM	1626	CEl	HIS	A	513	10.624	7.101	11.995	1.00	34.67
		ATOM	1627	NE2	HIS	A	513	9.326	7.328	11.889	1.00	35.82
		ATOM	1628	С	HIS	A	513	9.650	3.079	7.790	1.00	19.08
		MOTA	1629	0	HIS	A	513	8.575	2.863	7.220	1.00	21.20
		ATOM	1630	N	ILE	Α	514	10.809	2.662	7.297	1.00	15.58
:==	25	ATOM	1631	CA	ILE	A	514	10.849	1.921	6.038	1.00	16.48
		ATOM	1632	СВ	ILE	A	514	12.312	1.678	5.576	1.00	20.09
·Ø		ATOM	1633	CG2	ILE	A	514	12.349	0.602	4.499	1.00	19.55
IU		ATOM	1634	CG1	ILE	A	514	12.891	2.986	5.019	1.00	22.62
Ü					ILE							
4	30	ATOM	1635	CD1		A	514	14.393	2.992	4.874	1.00	27.34
÷ 20.4	30	ATOM	1636	C	ILE	A	514	10.112	0.590	6.210	1.00	16.40
교		MOTA	1637	0	ILE	A	514	9.364	0.164	5.328	1.00	17.91
120		ATOM	1638	Ŋ	ARG	A	515	10.301	-0.071	7.347	1.00	18.20
2;		ATOM	1639	CA	ARG	A	515	9.585	-1.327	7.564	1.00	18.05
		ATOM	1640	CB	ARG	A	515	9.984	-1.980	8.889	1.00	18.36
لبا	35	ATOM	1641	CG	ARG	A	515	9.173	-3.237	9.213	1.00	17.84
ليرا		MOTA	1642	CD	ARG	A	515	9.823	-4.470	8.606	1.00	17.94
		ATOM	1643	NE	ARG	A	515	11.038	-4.813	9.334	1.00	26.96
ij.		MOTA	1644	CZ	ARG	A	515	11.406	-6.051	9.641	1.00	25.13
Ū		MOTA	1645	NH1	ARG	A	515	10.654	-7.080	9.281	1.00	23.49
لية	40	ATOM	1646	NH2	ARG	A	515	12.511	-6.254	10.340	1.00	32.16
•		ATOM	1647	C	ARG	A	515	8.089	-1,020	7.594	1.00	18.29
		ATOM	1648	0	ARG	A	515	7.275	-1.759	7.038	1.00	16.22
		ATOM	1649	N	HIS	A	516	7.726	0.085	8.237	1.00	19.33
		ATOM	1650	CA	HIS	A	516	6.317	0.441	8.330	1.00	17.78
	45	ATOM	1651	CB	HIS	A	516	6.126	1.702	9.166	1.00	16.84
		ATOM	1652	CG	HIS	A	516	4.692	2.101	9.312	1.00	18.16
		ATOM	1653	CD2	HIS	A	516	3.967	3.061	8.691	1.00	21.17
		ATOM	1654	ND1	HIS	A	516	3.830		10.180	1.00	20.70
		ATOM		CE1	HIS	A	516	2.633		10.089	1.00	21.52
	50											
	50	MOTA		NE2	HIS	A	516	2.689	2.992	9.191	1.00	20.16
		MOTA		C	HIS	A	516	5.708	0.659	6.954	1.00	16.63
		MOTA	1658	0	HIS	A	516	4.598	0.216	6.689	1.00	18.58
		MOTA	1659	N	MET	A	517	6.438	1.334	6.073	1.00	15.29
		MOTA	1660	CA	MET	A	517	5.925	1.589	4.730	1.00	16.58
	55	ATOM		CB	MET	A	517	6.837	2.576	4.002	1.00	18.66
		ATOM		CG	MET	A	517	6.805	3.978	4.631	1.00	16.88
		MOTA	1663	SD	MET	A	517	7.670	5.243	3.701	1.00	24.08
		ATOM		CE	MET	A	517	9.390	4.777	3.962	1.00	14.30
		ATOM	1665	С	MET	A	517	5.773	0.289	3.940	1.00	17.86
	60	ATOM	1666	0	MET	A	517	4.791	0.101	3.224	1.00	18.25
		MOTA	1667	N	SER	A	518	6.741	-0.610	4.086	1.00	17.43
		MOTA	1668	CA	SER	A	518	6.697	-1.896	3.403	1.00	18.40

	5	MOTA	1669	CB	Ser	A	518	7.974	-2.695	3,680	1.00	16.77
		ATOM	1670	OG	SER	A	518	7.834	-4.030	3.227	1.00	24.23
		ATOM	1671	C	SER	A	518	5.476	-2.695	3.854	1.00	17,91
		ATOM	1672	0	SER	A	518	4.788	-3.295	3.030	1.00	18.97
		ATOM	1673	N	ASN	A	519	5.204	-2.697	5.159	1.00	21.82
	10	ATOM	1674	CA	ASN	A	519	4.047	-3.418	5.696	1.00	21.99
	••	ATOM	1675	CB	ASN	A	519	3.957	-3.257	7.216	1.00	23.24
		MOTA	1676	CG	ASN	A	519	5.046	-4.011	7.957	1.80	31.14
		MOTA	1677	OD1	asn	A	519	5.585	-4.999	7.461	1.00	32.50
		ATOM	1678	ND2	asn	A	519	5.368	-3.545	9.163	1.00	29,10
	1 5											
	15	ATOM	1679	C	ASN	A	519	2.761	-2.871	5.079	1.60	23.76
		MOTA	1680	0	ASN	A	519	1.902	-3.632	4.631	1.00	24.48
		ATOM	1681	N	LYS	A	520	2.627	-1.548	5.078	1.00	20.58
		MOTA	1682	CA	LYS	A	520	1.449	-0.900	4.512	1.00	25.49
		MOTA	1683	CB	LYS	A	520	1.484	0.607	4.786	1.00	24.73
	20	MOTA	1684	CG	LYS	A	520	1.512	0.996	6.264	1.00	32.31
		ATOM	1685	CD	LYS	A	520	0.656	0.080	7,133	1.00	37.11
		MOTA	1686	CE	LYS	A	520	-0.787	0.547	7.181	1.00	41.56
		ATOM	1687	NZ	LYS	A	520	-1.560	-0.134	8.261	1.00	42.66
		ATOM	1688	С	LYS	A	520	1.380	-1,144	3.005	1.00	25.40
:==	25	ATOM	1689	0	LYS	A	520	0.316	-1.436	2.467	1.00	26.44
		ATOM	1690	N	GLY	A	521	2.520	-1.021	2.332	1.00	22.88
Ð		ATOM	1691	CA	GLY	A	521	2.561	-1.236	0.897	1.00	21.53
ľIJ		ATOM	1692	C	GLY	A	521	2.177	-2.655	0.536	1.00	24.79
		ATOM	1693	0	GLY	A	521	1.426	-2.878		1.00	25.71
#	30			N	MET	A	522	2.696	-3.619	1.290	1.00	22.75
إيا	30	ATOM	1694									
	•	ATOM	1695	CA	MET	A	522	2.393	-5.027	1.058	1.00	23.40
14		MOTA	1696	CB	MET	A	522	3.170	-5.898	2.042	1.00	25.74
ži.		ATOM	1697	CG	MET	A	522	3.396	-7.308	1.559	1.00	31.06
		ATOM	1698	SD	MET	A	522	4.572	-7.352	0.202	1.00	34.06
	35	ATOM	1699	CE	MET	A	522	6.125	-7.229	1.113	1.00	29.28
IJ		ATOM	1700	C	MET	A	522	0.893	-5.281	1.218	1.00	26.49
ال		ATOM	1701	0	MET	A	522	0.268	-5.920	0.361	1.00	25.47
		ATOM	1702	N	GLU	A	523	0.321	-4.790	2.318	1.00	24.95
Ď		ATOM	1703	CA	GLU	Α	523	-1.110	-4.954	2.566	1.00	27,15
ţ 	40	ATOM	1704	CB	GLU	A	523	-1.555	-4.206	3.835	1.00	31.08
		ATOM	1705	CG	GLU	A	523	-0.830	-4.564	5.124	1.00	38.93
		ATOM	1706	CD	GLU	A	523	-1.153	-3.585	6.258	1.00	46.90
	-	ATOM	1707		GLU	Α	523	-2.225	-2.938	6.200	1.00	47.40
	•	ATOM	1708	OE2	GLU	Α	523	-0.337	-3.460		1.00	47.39
	45	ATOM	1709		GLU	A	523	-1.872	-4.368	1.381	1.00	26.10
		ATOM	1710		GLU	A	523	-2.817	-4.964		1.00	24.25
		ATOM		N	HIS	A	524	-1.449	-3.182	0.940	1.00	24.74
	-	ATOM		CA	HIS	A	524	-2.093	-2.505		1.00	26.17
		ATOM	1713	СВ	HIS	A	524	-1.481	-1.125		1.00	24 64
	50	ATOM	1714	CG	HIS		524	-2.233	-0.278		1.00	30.59
	50					A						
		ATOM		CD2	HIS	A	524	-3.227	0.624		1.00	32.15
		ATOM	1716	ND1	HIS	A	524	-2.008	-0.332		1.00	27.46
		MOTA	1717	CE1	HIS	A	524	-2.829		-3.326	1.00	34.58
	<i>c.c.</i>	MOTA	1718	NE2	HIS	A	524	-3.580	1.094		1.00	30.50
	55	ATOM	1719	С	HIS	A	524	-1.996	-3.294		1.00	28.06
		ATOM	1720	0	HIS	A	524	-2.976	-3.419		1.00	29.81
		ATOM	1721	N	LEU	A	525	-0.811	-3.824		1.00	27.07
		ATOM	1722	CA	LEU	A	525	-0.594	-4.601	-2.955	1.00	29.30
		ATOM	1723	CB	LEU	A	525	0.865	-5.039	-3.051	1.00	26.39
	60	ATOM	1724	CG	LEU	A	525	1.307	-5.765		1.00	29.34
		ATOM	1725	CD1	LEU	A	525	0.734	-5.076		1.00	29.61
		ATOM	1726		LEU	A	525	2.829	-5.769		1.00	29.22
								170				

	5	MOTA	1727	C	LEU	A	525	-1.497	-5.822 -2.950	1.00	31.67
		MOTA	1728	0	LEU	A	525	-2.128	-6.133 -3.957	1.00	32.45
		ATOM	1729	N	TYR	A	526	-1.559	-6.512 -1.814	1.00	36.14
		ATOM	1730	CA	TYR	A	526	-2.397	-7.698 -1.696	1.00	40.36
		ATOM	1731	CB	TYR	A	526	-2.221	-8.350 -0.324	1.00	45.27
	10	MOTA	1732	CG	TYR	A	526	-2.849	-9.722 -0.229	1.00	50.62
		ATOM	1733	CD1	TYR	A	526		-10.867 -0.537	1.00	54.55
					TYR	A	526 526		-12.136 -0.482	1.00	57.27
		ATOM	1734	CE1							
		MOTA	1735	CD2	TYR	A	526	-4.188	-9.876 0.142	1.00	53,48
	1.0	ATOM	1736	CE2	TYR	A	526		-11.141 0.201	1.00	55.93
	15	MOTA	1737	CZ	TYR	A	526	-4.029	-12.264 -0.113	1.00	56.60
		ATOM	1738	OH	TYR	A	526	-4.603	-13.515 -0.063	1.00	60.70
		atom	1739	C	TYR	A	526	-3.852	-7.298 - 1.893	1.00	42.83
		MOTA	1740	0	TYR	A	526	-4.673	-8.094 -2.349	1.00	43.49
•		MOTA	1741	N	SER	A	527	-4.158	-6.055 -1.543	1,00	41.55
	20	MOTA	1742	CA	SER	A	527	-5.503	-5.523 -1.686	1.00	44.04
		ATOM	1743	CB	SER	A	527	-5.606	-4.169 -0.979	1.00	43.47
		ATOM	1744	OG	SER	A	527	-6.954	-3.789 -0.786	1.00	47.51
		ATOM	1745	C	SER	A	527	-5.817	-5.356 -3.172	1.00	44.18
		ATOM	1746	Ö	SER	A	527	-6.883	-5.757 -3.642	1.00	44.88
4 1000	25	ATOM	1747	N	MET	A	528	-4.883	-4.755 -3.901	1.00	41.79
		ATOM	1748	CA	MET	A	528	-5.047	-4.536 -5.331	1.00	44.04
D		ATOM	1749	CB	MET	A	528	-3.898	-3.679 -5.870	1.00	44.78
ľ		MOTA	1750	CG	MET	A	528	-3.965	-2.206 -5.468	1.00	45.37
Ü							528		-1.598 -5.273		51.83
4	20	ATOM	1751	SD	MET	A		-5.652		1.00	
14	30	ATOM	1752	CE	MET	A	528	-5.553	-0.004 -6.044	1.00	46.61
쁘		MOTA	1,753	C	MET	A	528	-5.087	-5.871 -6.071	1.00	44.29
` ~]		ATOM	1754	0	MET	Α	528	-5.689	-5.979 -7.137	1.00	44.02
E;		ATOM	1755	N	LYS	A	529	-4.443	-6.883 -5.499	1.00	46.78
		ATOM	1756	CA	LYS	A	529	-4.413	-8.213 -6.099	1.00	51.28
i.J	35	ATOM	1757	CB	LYS	A	529	-3.550	-9.158 -5.261	1.00	50.87
IJ		ATOM	1758	CG	LYS	A	529	-2.798	-10.204 -6.071	1.00	50.55
		ATOM	1759	CD	LYS	A	529	-3.548	-11.520 -6.104	1.00	51.25
است. چين		ATOM	1760	CE	LYS	A	529	-2.616	-12.694 -5.856	1.00	53.22
Ü		ATOM	1761	NZ	LYS	A	529	-2.420	-12.954 -4.402	1.00	53.22
Ü	40	MOTA	1762	C	LYS	A	529	-5.829	-8.768 -6.182	1.00	54.27
		ATOM	1763	0 .	LYS	A	529	-6.325	-9.069 -7.266	1.00	55.50
		ATOM	1764	N	CYS	A	530	-6.472	-8.901 -5.027	1.00	56.71
		ATOM	1765	CA	CYS	A	530	-7.833	-9.416 -4.961	1.00	58.35
		ATOM	1766	CB	CYS	A	530	-8.333	-9.380 -3.517	1.00	59.78
	45	ATOM	1767	SG	CYS	A	530	-7.289	-10.304 -2.358	1.00	63.19
	••	ATOM	1768	c	CYS	A	530	-8.766	-8.609 -5.858	1.00	59.36
		ATOM	1769	0	CYS	A	530	-9.644	-9.169 -6.514	1.00	59.52
		MOTA	1770	N	LYS	A	531	-8.569	-7.293 -5.888	1.00	59.24
	50	ATOM	1771	CA	LYS	A	531	-9.390	-6.411 -6.713	1.00	60,14
	30	ATOM	1772	СВ	LYS	A	531	-9.158	-4.952 -6.317	1.00	58.92
		MOTA	1773	C	LYS	A	531	-9.073	-6.615 -8.195	1.00	61.48
		MOTA	1774	0	LYS	A	531	-9.618	-5.928 -9.061	1.00	61.74
		ATOM	1775	N	ASN	Α	532	-8.179	-7.561 -8.474	1.00	61.65
		ATOM	1776	CA	ASN	A	532	-7.783	-7.890 -9.840	1.00	61.60
	55	MOTA	1777	CB	ASN	A	532	-8.966	-8.518-10.581	1.00	62.28
		ATOM	1778	CG	ASN	A	532	-8.750	-9.985-10.878	1.00	64.66
		ATOM	1779	OD1	ASN	Α	532	-8.344	-10.352-11.983	1.00	67.08
		ATOM	1780	ND2	ASN	A	532	-9.016	-10.836 -9.891	1.00	62.68
		ATOM	1781	C	ASN	A	532	-7.247	-6.710-10.648	1.00	59.75
	60	ATOM	1782	0	ASN	A	532	-7.487	-6.615-11.850	1.00	57.50
		ATOM	1783	N	VAL	A	533	-6.507	-5.822 -9.992	1.00	59.39
		ATOM		CA	VAL	A	533	-5.954	-4.656-10.669	1.00	58.22
			7,04	~~	**************************************	~	J J J	400	4.000-40.009	4.00	



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	5	MOTA	1785	CB	VAL	A	533	-6.223	-3.371 -9.865	1.00	59.20
		MOTA	1786	CG1	VAL	A	533	-6.181	-2.163-10.785	1.00	59.21
		ATOM	1787	CG2	VAL	A	533	-7.574	-3.467 -9.172	1.00	59.57
		ATOM	1788	С	VAL	A	533	-4.452	-4.767-10.907	1.00	57.86
		MOTA	1789	ō	VAL	A	533	-3.846	-3.874-11.499	1.00	60.56
	10							-3.852	-5.863-10.451	1.00	56.03
	10	MOTA	1790	N	VAL	A	534				
		MOTA	1791	CA	VAL	A	534	-2.417	-	1.00	54.11
		MOTA	1792	CB	VAL	A	534	-1.767	-6,632 -9.341	1.00	54.02
		MOTA	1793	CG1	VAL	A	534	-0.300	-6.950 -9,601	1.00	52.37
		ATOM	1794	CG2	VAL	A	534	-1.900	-5.635 -8.200	1.00	55.70
	15	ATOM	1795	C	VAL	A	534	-2.089	-7.008-11.770	1.00	54.31
	••	ATOM	1796	õ	VAL	A	534	-2.519	-8.164-11.780	1.00	51.66
								- ·	· ·		
		MOTA	1797	N	PRO	A	535	-1.315	-6.527-12.755	1.00	53.54
		MOTA	1798	CD	PRO	A	535	-0.749	-5.172-12.874	1.00	54.28
		ATOM	1799	CA	PRO	A	535	-0.949	-7.373-13.893	1.00	53.24
	20	ATOM	1800	CB	PRO	A	535	0.011	-6.500-14.697	1.00	52.71
		ATOM	1801	CG	PRO	A	535	-0.353	-5.102-14.319	1.00	53.19
		ATOM	1802	С	PRO	A	535	-0,296	-8.664-13.411	1.00	54.25
		ATOM	1803	ō	PRO	A	535	0.121	-8.768-12.254	1.00	54.56
		ATOM	1804	И	LEU	A	536	-0.203	-9.645-14.299	1.00	53.63
	26										
	25	ATOM	1805	CA	LEU	A	536	0.382		1.00	53.11
ű		MOTA	1806	CB	LEU	A	536	-0.250		1.00	51.88
Ū		ATOM	1807	CG	LEU	A	536	-0.686	-13.256-13.938	1.00	51.83
Ŋ		MOTA	1808	CD1	LEU	A	536	-1.953	-12.917-13.173	1.00	49.51
ارجر: الله		ATOM	1809	CD2	LEU	A	536	-0.905	-14,449-14.854	1.00	53.43
\	30	ATOM	1810	C	LEU	Α	536	1.895		1.00	52.58
` j	50	ATOM	1811	Ö	LEU	A	536	2.414		1.00	55.33
4										1.00	48.72
100		MOTA	1812	N	TYR	A	537	2.601	-10.462-13.087		
#I		ATOM	1813	CA	TYR	A	537	4.057	-10.501-13.093	1.00	44.22
		MOTA	1814	CB	TYR	A	537	4.627	-9.134-12.709	1.00	44.52
ليا	35	MOTA	1815	CG	TYR	A	537	4.331	-8.053-13.731	1.00	45,18
tesar E. E		ATOM	1816	CD1	TYR	A	537	3.623	-6.905-13.376	1.00	43,77
Ü		ATOM	1817	CEl	TYR	A	537	3.334	-5.915-14.317	1.00	45.23
1		MOTA	1818	CD2	TYR	A	537	4.747	-8.187-15.058	1.00	46.91
٥		ATOM	1819	CE2	TYR	A	537	4.462	-7.202-16.008	1.00	43.93
	40	ATOM	1820	CZ	TYR	A	537	3.757	-6.071-15.631	1.00	46.70
•	40										
		MOTA	1821	ОН	TYR	A	537	3.472	-5.097-16.565	1.00	48.35
		MOŢA	1822	e	TYR	A	53 <i>7</i>	4.401	-11.562-12.056	1.00	41.29
		ATOM	1823	0	TYR	A	537	4.330	-11.319-10,856	1.00	41.82
		ATOM	1824	N	ASP	A	538	4.748	-12.748-12.540	1.00	40.34
	45	MOTA	1825	CA	ASP	A	538	5.055	-13.896-11.691	1.00	38.84
		ATOM	1826	CB	ASP	A	538	5.594	-15.037-12.554	1.00	43.47
		ATOM	1827	CG	ASP	A	538		-15.531-13.566	1.00	47.67
		ATOM	1828	OD1	ASP	A	538		-16.373-14.416	1.00	49.33
		ATOM	1829	OD2	ASP	A	538		-15.073-13.511	1.00	48.07
	50	ATOM	1830	C	ASP	A	538	5.991	-13.676-10.508	1.00	37.28
		ATOM	1831	0	ASP	A	538	5.620	-13.964 -9.371	1.00	38.55
		ATOM	1832	N	LEU	A	539	7.196	-13.200-10.766	1.00	33.83
		ATOM	1833	CA	LEU	A	539	8.155		1.00	32.80
		ATOM	1834	CB	LEU	A	539	9.419		1.00	32.78
	55										
	,,	ATOM	1835	CG	LEU	A	539	10.561		1.00	30.93
		ATOM	1836	CD1	LEU	A	539	10.913		1.00	33,81
		ATOM	1837	CD2	LEU	A	539	11.758		1.00	25.92
		ATOM	1838	C	LEU	A	539	7.558	-12.050 -8.614	1.00	31.85
		ATOM	1839	0	LEU	A	539	7.590	-12.367 -7.423	1.00	25.63
	60	ATOM	1840	N	LEU	A	540		-10.917 -9.042	1.00	32.07
		ATOM	1841	CA	LEU	A	540	6.411	-9.976 -8.111	1.00	31.03
						A	540	5.792	-8.800 -8.861	1.00	30.56
		ATOM	1842	CB	LEU	A	34U	3,732	-0.600 -6.661	1.00	30.50

	5	MOTA	1843	CG	LEU	A	540	5.124	-7.774	-7.945	1.00	31.12
		MOTA	1844	CD1	LEU	A	540	6.092	-7.357	-6.838	1.00	29.76
		ATOM	1845	CD2	LEU	A	540	4.693	-6.572	-8.762	1.00	30.85
		MOTA	1846	С	LEU	A	540	5.337	-10.660	-7.282	1.00	34.55
		ATOM	1847		LEU	A	540	5.316	-10.522		1.00	31.60
	10	ATOM	1848	N	LEU	A	541	4.446	-11.388		1.00	35.64
	10				LEU	A	541	3.378	-12.101		1.00	37.84
		ATOM	1849	CA								
		MOTA	1850	CB	LEU	A	541	2.452	-12.771		1.00	38.49
		MOTA	1851	CG	LEU	A	541	1.244	-11.932		1.00	39.80
		MOTA	1852	CD1	LEU	A	541	0.476	-11.476		1.00	40.02
	15	ATOM	1853	CD2	LEU	A	541	1.713	-10.733	-9.485	1.00	40.48
		ATOM	1854	С	LEU	A	541	3.937	-13.147	-6.275	1.00	40.10
		ATOM	1855	0	LEU	A	541	3.472	-13.254	-5,137	1,00	42.72
		ATOM	1856	N	GLU	A	542	4.929	-13.915		1.00	38.45
		ATOM	1857	CA	GLU	A	542	5.535	-14.932		1.00	39.59
	20	ATOM	1858	CB	GLU	A	542	6.738	-15.566		1.00	41.73
	20											48.34
		ATOM	1859	CG	GLU	A	542	6,396	-16.327		1.00	
		ATOM	1860	CD	GLU	A	542		-17.747		1.00	52.57
		MOTA	1861	OE1	GLU	A	542		-17.961		1.00	52.70
		ATOM	1862	OE2	GLU	A	542		-18.647		1.00	53.69
	25	ATOM	1863	C	GLU	A	542		-14.299		1.00	39.94
Ö		ATOM	1864	0	GLU	A	542	5.567	-14.710	-3.472	1.00	40.99
ĩŨ		ATOM	1865	N	MET	A	543	6.844	-13.287	-4.663	1.00	38.29
## ##		ATOM	1866	CA	MET	A	543	7.380	-12.580	-3.503	1.00	38.11
#.Ö		MOTA	1867	СВ	MET	A	543		-11.408		1.00	37.34
4	30	ATOM	1868	CG	MET	A	543		-11.797		1.00	40.59
	50	ATOM	1869	SD	MET	A	543	10.829	-12.223		1.00	45.64
<u></u>		ATOM	1870	CE	MET	A	543	12.014	-11.399		1.00	42.61
· V			1871	CE	MET	A	543	6.287	-12.064		1.00	37.94
ži		ATOM										
	25	ATOM	1872	0	MET	A	543	6.413	-12.127		1.00	39.20
ليا	35	MOTA	1873	N	LEU	A	544	5.218	-11.544		1.00	39.44
		MOTA	1874	CA	LEU	A	544	4.100	-11.013		1.00	40.91
17		ATOM	1875	CB	LEU	A	544	3.087	-10.344		1.00	39.88
(mar) LiFi		ATOM	1876	CG	LEU	A	544	1.775	-9.905	-2.688	1.00	42.70
		MOTA	1877	CD1	LEU	A	544	2.060	-8.886	-1.586	1.00	37.35
لية	40	ATOM	1878	CD2	LEU	A	544	0.854	-9.317	-3.741	1.00	38.47
•		ATOM	1879	C	LEU	A	544	3.420	-12.120	-1.614	1.00	42.83
		ATOM	1880	0	LEU	A	544	2.957	-11.899	-0.496	1.00	42.73
		ATOM	1881	N	ASP	A	545		-13.313	-2.197	1.00	46.32
		ATOM	1882	CA	ASP	A	545		-14.456		1.00	50.65
	45	ATOM	1883	CB	ASP	A	545		-15.617		1.00	53.67
	43		1884		ASP		545		-15.278		1.00	57.35
		ATOM		CG		A			•			•
		ATOM	1885	OD1	ASP	A	545		-14.568		1,00	59.99
		ATOM	1886	ODZ	ASP	A	545		-15.718		1.00	59.68
		ATOM	1887	С	ASP	Α	545		-14.898		1.00	50.74
	50	MOTA	1888	0	ASP	A	545		-15.388	0.657	1.00	49.39
		ATOM	1889	N	ALA	A	546	4.874	-14.723	-0.401	1.00	51.82
		MOTA	1890	CA	ALA	A	546	5.750	-15.095	0.702	1.00	53.12
		ATOM	1891	CB	ALA	A	546	7.180	-14.678	0.395	1.00	53.19
		ATOM	1892	C	ALA	A	546	5.269	-14.424	1.987	1.00	54.67
	55	ATOM	1893	ō	ALA	A	546	5.476	-14.940	3.085	1.00	52.32
	-	ATOM	1894	N .	HIS	A	547	4.622	-13.270	1.838	1.00	56.66
		ATOM	1895		HIS		547 547	4.102	-13.270	2.978	1.00	59.19
				CA		A					1.00	
		ATOM	1896	CB	HIS	A	547	4.144	-11.017	2.684		56.70
	60	ATOM	1897	CG	HIS	A	547	5.489	-10.394	2.896	1.00	54.64
	60	ATOM	1898	CD2	HIS	A	547		-10.506	2.199	1.00	53.92
		ATOM	1899	ND1	HIS	A	547	5.748	-9.514	3.925	1.00	52.17
		ATOM	1900	CEl	HIS	A	547	7.004	-9.111	3.853	1.00	52.16

	5	ATOM	1901	NE2	HIS	A	547	7.570	-9.698	2.814	1.00	51.90
		MOTA	1902	C	HIS	A	547	2.668	-12.940	3.306	1.00	62.77
		ATOM	1903	0	HIS	A	547	1.842	-12.120	3.707	1.00	63.24
		ATOM	1904	N	ARG	A	548	2.381	-14.224	3.133	1.00	68.37
		ATOM	1905	CA	ARG	A	548		-14.758	3.411	1.00	72.75
	10	ATOM	1906	СВ	ARG	A	548		-14.864	2.113	1.00	73.73
	10	ATOM	1907	CG	ARG	A	548		-14.243	2.186	1.00	74.04
		MOTA	1908	CD	ARG	A	548	· ·	-12.728	2.297	1.00	74.50
		ATOM	1909	NE	ARG	A	548		-12.167	2.863	1.00	75.04
		ATOM	1910	CZ	ARG	A	548		-10.880	3.149	1.00	75.59
	15	ATOM	1911	NH1	ARG	A	548		-10.006	2.919	1.00	75.79
		MOTA	1912	NH2	ARG	A	548	-3.627	-10.464	3.662	1.00	76.00
		MOTA	1913	C	ARG	A	548	1.179	-16.133	4.051	1.00	74.94
		ATOM	1914	0	ARG	A	548	0.197	-16.697	4.549	1.00	75.15
		ATOM	1915	N	LEU	A	549	2.398	-16.665	4.063	1.00	76.49
	20	ATOM	1916	CA	LEU	A	549	2.669	-17.969	4.653	1.00	78.14
		ATOM	1917	CB	LEU	A	549	2.971	-18.986	3.557	1.00	77,55
		ATOM	1918	C	LEU	A	549		-17.870	5.619	1.00	79.13
		ATOM	1919	ō	LEU	A	549	4.892	-17.317	5.215	1.00	80.40
		ATOM	1920	OXT	LEU	A	549		-18.341	6.769	1.00	79.46
	25	HETATM	1921	CP9	DES	A	600	5.390	-3.061		1.00	21.38
	23	HETATM	1922	CP8	DES	A	600	5.834	-1.989		1.00	22.41
Ð							600	5.038	-0.714		1.00	21.32
IJ		HETATM	1923	CP7	DES	A						
IJ		HETATM	1924	CP6	DES	A	600	3.587	-0.864		1.00	25.87
كه إ	20	HETATM	1925	CP1	DES	A	600	2.987	-0.978		1.00	23.92
164	30	HETATM	1926	CP2	DES	A	600	1.597	-1.150		1.00	29.77
[=		HETATM	1927	CP3	DES	A	600	0.842	-1.214		1.00	31.40
1		HETATM	1928	OP3	DES	A	600	-0.506	-1.419	-4.824	1.00	33.36
1:		HETATM	1929	CP4	DES	A	600	1.421	-1.099		1.00	27.01
		HETATM	1930	CP5	DES	Α.	600	2.793	-0.929	-6.230	1.00	27.40
للا	35	HETATM	1931	C7	DES	A	600	5.671	0.461	-5.482	1.00	22.39
1.1		HETATM	1932	C6	DES	A	600	7.113	0.561	-5.809	1.00	21.75
		HETATM	1933	C5	DES	A	600	7.541	0.306	-7.131	1.00	19.97
أجوأ يعي		HETATM	1934	C4	DES	A	600	8.889	0.429	-7.477	1.00	23.81
٥		HETATM	1935	C3	DES	A	600	9.814		-6.488	1.00	21.88
· D	40	HETATM	1936	03	DES	A	600	11.125		-6.839	1.00	22.32
		HETATM	1937	C2	DES	A	600	9.423		-5.161	1.00	19.74
		HETATM	1938	C1	DES	A	600	8.066		-4.838	1.00	21.25
		HETATM	1939	C8	DES	A	600	4.894	1.765		1.00	21.47
		HETATM	1940	C9	DES	A	600	4.959		-4.070	1.00	21.38
	45	HETATM			CL		601	14.781	-3.035-		1.00	24.10
	43		1941	CL		A						
		ATOM	1942	CB	SER	В	305	12.321	21.086		1.00	64.27
		ATOM	1943	C	SER	В	305	12.672	22.102		1.00	64.37
		ATOM	1944	0	SER	В	305	13.701	22.760		1.00	66.90
		ATOM	1945	N	SER	В	305	12.045	23.521		1.00	63.72
	50	ATOM	1946	CA	SER	В	305	11.875	22.187		1.00	64.21
		MOTA	1947	N	LEU	В	306	12.193	21.293	28.484	1.00	63.09
		ATOM	1948	CA	LEU	В	306	12.884	21.133	29.757	1.00	60.98
		ATOM	1949	CB	LEU	B	306	11.884	21.200	30.913	1.00	61.23
		ATOM	1950	CG	LEU	В	306	12.221	20.417	32.183	1.00	62.23
	55	ATOM	1951	CD1	LEU	В	306	13.304	21.144		1.00	62.56
		ATOM	1952	CD2	LEU	В	306	10.965	20.258		1.00	64.31
		ATOM	1953	C	LEU	В	306	13.660	19.819		1.00	58.39
		ATOM	1954	0	LEU	В	306	14.570	19.654		1.00	58.56
		ATOM	1955	И	ALA	В	307	13.293	18.881		1.00	54.82
	60	ATOM	1956	CA	ALA	B	307	13.233	17.589		1.00	50.62
	••	ATOM .	1057	~P	AT. N	10	2 / 1 . 7	מסת בן	76 607			— • • • • • • • • • • • • • • • • • • •
	••	ATOM ATOM	1957 1958	CB	ALA ALA	B B	307 307	13.092 15.303	16.584 17.719		1.00	51.30 46.84

	5	MOTA	1959	0	ALA	В	307	16.196	16.885 28.2	74 1.00	45.62
		MOTA	1960	N	LEU	В	308	15.431	18.769 27.33	20 1.00	43.46
		ATOM	1961	CA	LEU	В	308	16.643	18.983 26.5	12 1.00	43.01
		ATOM	1962	CB	LEU	В	308	16.413	20.100 25.5	26 1.00	41.32
		ATOM	1963	CG	LEU	В	308	16.315	19.708 24.0		43.10
	10	ATOM	1964	CD1	LEU	В	308	15.942	18.239 23.9		40.51
	. •	ATOM	1965	CD2	LEU	В	308	15.287	20.602 23.3		39.80
		ATOM	1966	C	LEU	В	308	17.874	19.297 27.3		42.11
		ATOM	1967	0	LEU	В	308	19.000	19.102 26.93		44.34
		ATOM	1968	N	SER	В	309	17.669	19.775 28.6		40.88
	15	ATOM	1969	CA	SER	В	309	18.796	20.100 29.4		42.79
		ATOM	1970	CB	SER	B	309	18.562	21.447 30.10		41.25
		ATOM	1971	OG	SER	В	309	17.459	21.379 31.0	16 1.00	46.67
		ATOM	1972	C	SER	В	309	19.072	19.028 30.5	29 1.00	42.60
		ATOM	1973	0	SER	В	309	20.053	19.119 31.20	39 1.00	44.18
	20	ATOM	1974	N	LEU	В	310	18.217	18.012 30.59	96 1.00	39.44
		ATOM	1975	CA	LEU	В	310	18.394	16.936 31.50	59 1.00	37.62
		ATOM	1976	CB	LEU	В	310	17.205	15.969 31.49		38.84
		ATOM	1977	CG	LEU	В	310	16.216	15.873 32.60		42.43
		ATOM	1978	CD1	LEU	В	310	16.040	17.219 33.3		42.55
	25	ATOM	1979	CD3	LEU	В	310	14.881	15.380 32.13		39.69
	23	ATOM	1980	CDZ	LEU	В	310	19.691	16.174 31.20		34.11
Ð								20.111			
ľU		ATOM	1981	0	LEU	В	310		16.070 30.13		34.41
Ü		ATOM	1982	N	THR	В	311	20.339	15.662 32.33		34.04
	20	ATOM	1983	CA	THR	В	311	21.564	14.888 32.13		32.34
	30	ATOM	1984	CB	THR	В	311	22.434	14.824 33.39		31.75
i-4		MOTA	1985	OG1	THR	В	311	21.724	14.116 34.43		36.20
٠ا		ATOM	1986	CG2	THR	В	311	22,782	16.212 33.89	3 1.00	31.05
ā i		ATOM	1987	С	THR	В	311	21.145	13.460 31.79	0 1.00	32.37
		ATOM	1988	0	THR	В	311	19.967	13.117 31.89	99 1.00	28.16
لدا	35	ATOM	1989	N	ALA	В	312	22.106	12.628 31.39	96 1.00	33.23
1,4		ATOM	1990	CA	ALA	В	312	21.811	11.237 31.09	3 1.00	35.63
		ATOM	1991	CB	ALA	В	312	23.077	10.527 30.5		34.00
ليا		ATOM	1992	C	ALA	В	312	21.210	10.489 32.24		34.29
٠ <u>.</u>		ATOM	1993	0	ALA	В	312	20.226	9.766 32.08		33.10
ıΩ	40	ATOM	1994	N	ASP	В	313	21.800	10.665 33.43		33.90
		ATOM	1995	CA	ASP	В	313	21.304	9.994 34.6:		34.19
		ATOM	1996	CB	ASP	В	313	22.258	10.219 35.78		42.09
		ATOM	1997	CG	ASP		313	23.494	9.358 35.70		
		•				В					44.87
	45	MOTA	1998	OD1	ASP	В	313	24.586	9.858 36.04		51.57
	43	MOTA	1999	OD2	ASP	В	313	23.377	8.184 35.29		46.79
		MOTA	2000	C	ASP	В	313	19.925	10.520 34.95		31.99
		ATOM	2001	0	ASP	В	313	19.056	9.768 35.42		32.03
		ATOM	2002	N	GLN	В	314	19.733	11.819 34.76		29.38
		ATOM	2003	CA	GLN	В	314	18.458	12.457 35.04		29.73
	50	MOTA	2004	CB	GLN	В	314	18.562	13.966 34.83	1.00	32.88
		ATOM	2005	CG	GLN	В	314	18.970	14.732 36.08	35 1.00	36.47
		ATOM	2006	CD	GLN	В	314	19.213	16.208 35.81	5 1.00	36.76
		ATOM	2007	OE1	GLN	В	314	19.300	16.634 34.66	4 1.00	38.79
		ATOM	2008	NE2	GLN	В	314	19.327	16.995 36.88		39.72
	55	ATOM	2009	C	GLN	B	314	17.409	11.873 34.11		29.11
		ATOM	2010	Ö	GLN	В	314	16.274	11.620 34.52		28.82
		ATOM	2010	N	MET	В	315	17.801	11.657 32.86		27.27
		ATOM	2011								
				CA	MET	В	315	16.900	11.079 31.87		30.41
	60	ATOM	2013	CB	MET	В	315	17.595	11.029 30.50		30.10
	O.	ATOM	2014	CG	MET	В	315	16.787	10.345 29.42		38.02
		ATOM	2015	SD	MET	В	315	15.252	11.220 29.06		41.12
		ATOM	2016	CE	MET	В	315	15.890	12.835 28.61	1.00	39.32
								104			

	5	MOTA	2017	C	MET	В	315	16.490	9.665 32.311	1.00	27.99
		ATOM	2018	0	MET	В	315	15.302	9.351 32.396	1.00	26.60
		MOTA	2019	N	VAL	B .	316	17.481	8.823 32.598	1.00	27.26
		ATOM	2020	CA	VAL	В	316	17.229	7.447 33.627	1.00	24.54
		ATOM	2021	CB	VAL	B	316	18.554	6.708 33.351	1.00	26.22
	10	ATOM	2022	CG1	VAL	В	316	18.272	5.404 34.096	1.00	29.81
		ATOM	2023	CG2	LAV	В	316	19.302	6.410 32.074	1.60	29.75
		ATOM	2024	C	VAL	В	316	16.326	7.389 34.258	1.00	27.22
		ATOM	2025	õ	VAL	В	316	15.397	6.579 34.318	1.00	25.55
		ATOM	2026	N	SER	В	317	16.601	8,243 35.242	1.00	24.40
	15	ATOM	2027	CA	SER	В	317	15.799	8.268 36.460	1.00	27.63
	13	ATOM	2028	CB	SER	В	317	16.358	9.294 37.451	1.00	31.68
			2029	06	SER	В	317		8.771 38.112		39.97
		ATOM						17.492	•	1.00	
		ATOM	2030	C	SER	В	317	14.346	8.600 36.154	1.00	26.73
	20	MOTA	2031	0	SER	В	317	13.434	7.932 36,648	1.00	25.65
	20	ATOM	2032	N	ALA	B	318	14.135	9.634 35.342	1.00	24.19
		ATOM	2033	CA	ALA	B	318	12.786	10.049 34.969	1.00	24.17
		ATOM	2034	CB	ALA	В	318	12.850	11.250 34.022	1.00	21.44
		MOTA	2035	C	ALA	В	318	12.038	8.890 34.306	1.00	21.63
		MOTA	2036	0	ALA	В	318	10.902	8.598 34.648	1.00	20.25
	25	ATOM	2037	N	LEU	В	319	12.695	8,225 33.364	1.00	23.37
Ď		MOTA	2038	CA	LEU	B	319	12.098	7.102 32.652	1.00	25.42
ΙŪ		ATOM	2039	CB	LEU	В	319	13.050	6.635 31.548	1.00	22.03
D		ATOM	2040	CG	LEU	В	319	13.264	7.622 30.394	1.00	20.71
ļub		MOTA	2041	CD1	LEU	В	319	14.146	6.995 29.331	1.00	23.60
·	30	ATOM	2042	CD2	LĘU	B	319	11.918	8.020 29.803	1.00	23.82
į.		MOTA	2043	C	LEU	В	319	11.729	5.926 33.564	1.00	27.26
, A		ATOM	2044	0	LEU	В	319	10.615	5.396 33.488	1.00	28.91
		ATOM	2045	N	LEU	В	320	12.656	5.516 34.426	1.00	26.58
şi jeng		ATOM	2046	CA	LEU	В	320	12.399	4.405 35.334	1.00	26.73
	35	ATOM	2047	CB	LEU	В	320	13.657	4.075 36.145	1.00	26.87
IJ		ATOM	2048	CG	LEU	В	320	14.846	3,460 35.398	1.00	26.15
IJ		ATOM	2049	CD1	LEU	В	320	16.053	3.375 36.330	1.00	28.04
		MOTA	2050	CD2	LEU	В	320	14.484	2.076 34.895	1.00	26.96
Ü		ATOM	2051	C	LEU	B	320	11.249	4.722 36.290	1.00	29.19
Ü	40	ATOM	2052	0	LEU	В	320	10.449	3.849 36.631	1.00	26.66
	•	ATOM	2053	N	ASP	В	321	11.160	5.976 36.719	1,00	29.72
		ATOM	2054	CA	ASP	В	321	10.112	6.371 37.647		
		ATOM	2055	CB	ASP	В	321	10.494	7.683 38.336	1.00	36.60
		ATOM	2056	CG	ASP	В	321	11.407	7.461 39.535	1.00	46.11
	45	ATOM	2057	OD1	ASP	В	321	10.897	7.058 40.605	1.00	46.64
	43	ATOM	2058	OD2	ASP	В	321	12.635	7.676 39.402	1.00	
		ATOM	2059	C	ASP		321				45.98
						В		8.742	6.494 36.989	1.00	28.29
		ATOM	2060	0	ASP	В	321	7.715	6.432 37.661	1.00	27.19
	50	ATOM	2061	N	ALA	В	322	8.726	6.650 35.672	1.00	28.34
	50	ATOM	2062	CA	ALA	В	322	7.469	6.779 34.950	1.00	25.55
		ATOM	2063	CB	ALA	В	322	7.668	7.668 33.728	1.00	24.11
		ATOM	2064	C .	ALA	В	322	6.911	5.420 34.523	1.00	22.80
		ATOM	2065	0	ALA	В	322	5.810	5.338 33.979	1.00	24.54
		MOTA	2066	N	GLU	В	323	7.662	4.355 34.781	1.00	20.16
	55	ATOM		CA	GLU	В	323	7.229	3.021 34.386	1.00	21.44
		ATOM	2068	CB	GLU	В	323	8.196	1.982 34.938	1.00	23.72
		ATOM	2069	CG	GLU	В	323	9.393	1.746 34.024	1.00	23.58
		ATOM	2070	CD	GLU	B	323	8.988	1.134 32.685	1.00	25.23
		ATOM	2071	OE1	GLU	В	323	8.852	1.881 31.692	1.00	21.74
	60	ATOM	2072	OE2	GLU	В	323	8.809	-0.095 32.624	1.00	25.49
		ATOM	2073	С	GLU	В	323	5.796	2.696 34.810	1.00	22.35
		ATOM	2074	0	GLU	В	323	5.409	2.926 35.951	1.00	22.34

	5	ATOM	2075	N	PRO	В	324	4.986	2.165 33.880	1.00	19.10
	•	ATOM	2076	CD	PRO	B	324	5.286	1.806 32.483	1.00	19.11
		-	2077	CA	PRO	В	324	3.607	1.839 34.242	1.00	22.04
		ATOM							· · · · · · · · · · · · · · · · · · ·		
		ATOM.	2078	CB	PRO	B	324	2.919	1.658 32.893	1.00	21.96
		ATOM	2079	CG	PRO	В	324	4.015	1.137 32.015	1.00	24,13
	10	MOTA	2080	С	PRO	В	324	3.619	0.556 35.060	1.00	23,44
		ATOM	2081	0	PRO	В	324	4.590	-0.200 35.028	1.00	22.20
		ATOM	2082	N	PRO	В	325	2.540	0.287 35.801	1.00	24.88
		ATOM	2083	CD	PRO	В	325	1.299	1.068 35.945	1.00	26.67
		ATOM	2084	CA	PRO	В	325	2.520	-0.940 36.603	1.00	25.10
	15	ATOM	2085	CB	PRO	В	325	1.394	-0.691 37,595	1.00	27.09
	• -	ATOM	2086	CG	PRO	В	325	0.448	0.205 36.854	1.00	26.87
		MOTA	2087	C	PRO	В	325	2.270	-2.192 35.776	1.00	25.77
		ATOM	2088	0	PRO	В	325	1.853	-2.118 34.617	1.00	21.69
		ATOM	2089	Ŋ	ILE	В	326	2.538	-3.344 36.379	1.00	24.05
	20	ATOM	2099	CA	ILE	B	326	2.301	-4.620 35.722	1.00	22.51
	20		2091		ILE	B	326	3.303	-5.688 36.185	1.00	25.81
		ATOM	_	CB							
		ATOM	2092	CG2	ILE	В	326	3.011	-7.018 35.481	1.00	23.78
		ATOM	2093	CG1	ILE	В	326	4.729	-5,209 35.900	1.00	25.75
	A 5	ATOM	2094	CD1	ILE	В	326	5.241	-5.585 34.533	1.00	27.78
	25	ATOM	2095	С	ILE	В	326	0.893	-5.020 36.149	1.00	23.63
1		ATOM	2096	0	ILE	В	326	0.632	-5.231 37.332	1.00	24.81
ıŪ		ATOM	2097	N	LEU	В	327	-0.018	-5.104 35.188	1.00	19.44
Ű		ATOM	2098	CA	LEU	В	327	-1.399	-5.437 35,493	1.00	17.03
		ATOM	2099	CB	LEU	B	327	-2.336	-4.747 34.493	1.00	18.39
,	30	ATOM	2100	CG	LEU	В	327	-2.201	-3.216 34.373	1.00	20.69
<u> -</u>		ATOM	2101	CD1	LEU	В	327	-3.245	-2.679 33.406	1.00	14.87
, •¶		MOTA	2102	CD2	LEU	В	327	-2.384	-2.570 35.742	1.00	14.39
		ATOM	2103	С	LEU	В	327	-1.662	-6.928 35.499	1.00	19.87
\$ 1230g.		MOTA	2104	0	LEU	В	327	-0.854	-7.722 35.014	1.00	20.90
	35	ATOM	2105	N	TYR	В	328	-2.803	-7.300 36.066	1.00	20.92
W		ATOM	2106	CA	TYR	В	328	-3.202	-8.692 36.135	1.00	21.79
(JJ		ATOM	2107	CB	TYR	В	328	-3.658	-9.050 37.550	1.00	22.91
		ATOM	2108	CG	TYR	В	328	-2.515	-9.376 38.468	1.00	24.60
Q.		ATOM	2109	CD1	TYR	B	328	-2.118	-10.696 38.677	1.00	25.93
ŧΩ	40	ATOM	2110	CE1	TYR	В	328		-11.000 39.498	1.00	28.10
	40							•			
		ATOM	2111	CD2	TYR	В	328	-1.802	-8.362 39.103	1.00	29.46
		MOTA	2112	CE2	TYR	В	328	-0.716	-8.654 39.926	1.00	35.30
		MOTA	2113	CZ	TYR	В	328	-0.338	-9.973 40.117	1.00	32.59
		ATOM	2114	OH	TYR	B	328	0.739	-10.257 40.923	1.00	37.24
	45	ATOM	2115	С	TYR	В	328	-4.336	-8.944 35.168	1.00	22.25
		ATOM	2116	0	TYR	В	328	-5.115	-8.039 34.849	1.00	19.77
		ATOM	2117	N	SER	В	329		-10.180 34.698	1.00	25.81
		MOTA	2118	CA	SER	B	329	-5.480	-10.571 33.787	1.00	29.39
		MOTA	2119	CB	SER	В	329	-5.002	-11.710 32.887	1.00	27.65
	50	ATOM	2120	OG	SER	В	329	-6.091	-12.329 32.233	1.00	28.98
		ATOM	2121	C	SER	В	329	-6.625	-11.042 34.673	1.00	33.17
		ATOM	2122	0	SER	В	329		-11.157 35.888	1.00	32.52.
		ATOM	2123	N	GLU	В	330		-11.289 34.084	1.00	38.75
		ATOM	2124	CA	GLU	В	330		-11.776 34.859	1.00	44.91
	55	ATOM	2125	CB	GLU	В	330		-11.999 33.951	1.00	45.63
	J.J	ATOM	2125	C	GLU	В	330		-13.093 35.491	1.00	48.62
							330			1.00	52.37
		ATOM	2127	0	GLU	В			-13.851 34.882		
		ATOM	2128	N	TYR	В	331		-13.366 36.707	1.00	51.75
	40	ATOM	2129	CA	TYR	В	331		-14.596 37.396	1.00	55.25
	60	ATOM	2130	CB	TYR	В	331		-14,365 38.911	1.00	53.04
		ATOM	2131	CG	TYR	B	331		-13.668 39.440	1.00	50.70
		ATOM	2132	CD1	TYR	В	331	-10.880	-14.400 39.856	1.00	47.09

	5	ATOM	2133	CE1	TYR	B	331	-12.035	-13.762	40,292	1.00	46.43
		ATOM	2134	CD2	TYR	В	331	-9.842	-12.273	39.478	1.60	47.52
		ATOM	2135	CE2	TYR	В	331	-10.993	-11.625	39.913	1.00	43.98
		ATOM	2136	CZ	TYR	₿	331	-12.086	-12.376	40.314	1.00	44.33
		ATOM	2137	OH	TYR	В	331	-13.239			1.00	45.31
	10	ATOM	2138	c c	TYR	В	331	-9.528			1.00	60.11
	.0	ATOM	2139	õ	TYR	В	331	-10,748			1.00	63.13
				и	ASP	B	332	-8.952			1.00	61.60
		ATOM	2140	-		_						
		ATOM	2141	CA	ASP	В	332		-18.124		1.00	63.58
		ATOM	2142	CB	ASP	В	332	-10.637			1.00	65.11
	15	ATOM	2143	CG	ASP	В	332	-11.723			1.00	65.32
		MOTA	2144	OD1	asp	B	332	· ·	-20.136		1.00	63,69
		ATOM	2145	OD2	ASP	B	332	-12,876	-18.602	34.866	1.00	63.61
		ATOM	2146	C	ASP	B	332	-8.707	-19,227	36.153	1.00	62.86
		ATOM	2147	0	ASP	В	332	-7.853	-19.056	35.287	1.00	62.26
	20	ATOM	2148	N	PRO	В	333	-8.811	-20.379	36.833	1.00	63.96
		ATOM	2149	CD	PRO	В	333		-20.690		1.00	64.24
		ATOM	2150	CA	PRO	В	333		-21.503		1.00	64.24
		ATOM	2151	CB	PRO	В	333		-22.325		1.00	64.70
		ATOM	2152	CG	PRO	В	333	-9.410			1.00	65.00
	25	ATOM	2153	C	PRO	В	333	-8.180			1.00	63.90
13	23											
Û		ATOM	2154	0	PRO	В	333	-7.384			1.00	63.70
ľ		ATOM	2155	N	THR	B	334	-9.303			1.00	63.83
Ü		ATOM	2156	CA	THR	В	334	-9.649			1.00	63.77
nds.		ATOM	2157	CB	THR	В	334	-11.065			1.00	64.63
14	30	MOTA	2158	OG1	THR	В	334	-11.132			1.00	65.95
ļl.		MOTA	2159	CG2	THR	В	334	-12.102	-22.817	34.036	1.00	65.09
,		ATOM	2160	Ç	THR	В	334	-8.634	-22.499	32.388	1.00	62.62
		MOTA	2161	0	THR	В	334	-8.931	-21.774	31.437	1.00	60.15
5) 4 00 j		ATOM	2162	N	ARG	В	335	-7.432	-23.043	32.553	1.00	63.14
	35	ATOM	2163	CA	ARG	В	335	-6.324	-22.820	31.633	1.00	60.70
إدا		ATOM	2164	CB	ARG	В	335		-23.667		1.00	58.73
IJ		ATOM	2165	C	ARG	B	335		-23.086		1.00	59.71
		ATOM	2166	ŏ	ARG	В	335		-22.298		1.00	62.33
ιÜ		ATOM	2167	N	PRO	В	336		-24.194		1.00	55.25
Ü	40	MOTA	2168	CD	PRO	В	336	-7.938	-		1.00	53.53
	40		2169		PRO	В	336	-7.698				50.10
		ATOM		CA							1.00	•
		ATOM	2170	СВ	PRO	В	336		-25.799			49.70
		ATOM	2171		PRO	В	336	•	-26.372		1.00	50.71
	4.5	ATOM		C	PRO	B	336		-23.324		1.00	44.54
	45	MOTA	2173	O	PRO	В	336		-23.342		1.00	44.14
		ATOM	2174	N	PHE	В	337	-8.007	-22.350		1,00	39.18
		MOTA	2175	ÇA	PHE	В	337	-8.764	-21.223	26.742	1.00	38.25
		ATOM	2176	CB	PHE	В	337	-7.850	-20.003	26.567	1.00	36.98
		ATOM	2177	CG	PHE	В	337	-7.229	-19.517	27.846	1.00	36.81
	50	MOTA	2178	CD1	PHE	В	337	-5.846	-19.511	28.002	1.00	38.89
		ATOM	2179	CD2	PHE	В	337	~8.023	-19.062	28.893	1.00	35.97
		ATOM	2180	CE1	PHE	В	337		-19.059		1.00	36.85
		ATOM	2181	CE2	PHE	В	337		-18.608		1.00	37.15
		ATOM	2182	cz	PHE	В	337		-18.607		1.00	38.40
	55	ATOM	2182	C	PHE	В	337		-21.535		1.00	36.81
	J J			_								
		ATOM	2184	0	PHE	В	337		-22.399		1.00	36,26
		ATOM	2185	N	SER	В	338		-20.828		1.00	35.85
		ATOM	2186	CA	SER	В	338		-20.981		1.00	34.76
	60	ATOM	2187	CB	SER	В	338		-20.948		1.00	34.85
	60	ATOM	2188	OG	SER	В	338		-19.621		1.00	33.53
		ATOM	2189	C	SER	В	338		-19.761		1.00	34.99
•		MOTA	2190	0	SER	В	338	-10.143	-18.855	23.591	1.00	34.32

	5	ATOM	2191	N	GLU	В	339	-11.075	-19.722	21.750	1.00	33.01
		MOTA	2192	CA	GLU	В	339	-10.682	-18.579	26.950	1.00	33.94
		ATOM	2193	CB	GLU	В	339	-11.146	-18.737	19.501	1.00	33.79
		ATOM	2194	CG	GLU	В	339	-10.758	-17.553	18.623	1.00	39.11
		ATOM	2195	CD	GLU	В	339		-17.852		1.00	43.17
	10	ATOM	2196	OE1	GLU	В	339		-17.785		1.00	45.28
	10	ATOM	2197	OE2	GLU	В	339		-18.152		1.00	39.19
		MOTA	2198	C	GLU	В	339		-17.295		1.00	34.28
		ATOM	2199	0	GLU	В	339		-16.283		1.00	33.65
		ATOM	2200	N	ALA	В	340		-17.339		1.00	31.12
	15	ATOM	2201	CA	ALA	. B	340		-16.164		1.00	29.10
		MOTA	2202	CB	ALA	B	340	-14.696	-16.412	22.573	1.00	33.84
		MOTA	2203	C	ALA	B	340	-12.639	-15.731	23.826	1.00	28.98
		ATOM	2204	0	ALA	B	340	-12.431	-14.541	24.060	1.00	30.48
		ATOM	2205	N	SER	В	341	-12.407	-16.691	24.719	1.00	26.66
	20	ATOM	2206	CA	SER	В	341	-11.882	-16.386	26.044	1.00	24.26
		ATOM	2207	CB	SER	В	341		-17.643		1.00	27.04
		ATOM	2208	OG	SER	В	341		-18.541	*	1.00	33.84
		ATOM	2209	C	SER	В	341		-15.793		1.00	23.97
		ATOM	2210	0	SER	В	341		-14.824		1.00	21.56
	25							-9.631				
	23	ATOM	2211	N	MET	В	342				1.00	26.83
Ü		ATOM	2212	CA	MET	В	342		-15.865		1.00	27.24
ľ		ATOM	2213	CB	MET	В	342		-16.758		1.00	30.45
ID.		ATOM	2214	CG	MET	В	342		-16.300		1.00	35.35
į.s		ATOM	2215	SD	MET	В	342		-17.667		1.00	44.57
٠	30	ATOM	2216	CE	MET	В	342		-17.341		1.00	41.37
<u></u>		MOTA	2217	C	MET	B	342	-8.322	-14.448	24.385	1.00	25.31
4		MOTA	2218	0	MET	В	342	-7.653	-13.541	24.874	1.00	26.67
E)		ATOM	2219	N	MET	В	343	-9.114	-14.278	23.345	1.00	25.75
		MOTA	2220	CA	MET	В	343	-9.262	-12.979	22.712	1.00	25.47
₩	35	ATOM	2221	CB	MET	В	343	-10.210	-13.088	21.528	1.00	23.51
IJ		ATOM	2222	CG	MET	В	343	-9.540	-13.618	20.273	1.00	28.86
ليا		ATOM	2223	SD	MET	В	343		-12.456		1.00	29.25
		ATOM	2224	CE	MET	В	343		-11.015		1.00	28.74
ιØ		ATOM	2225	C	MET	В	343		-11,966		1.00	25.37
ı	40	ATOM	2226	Ō	MET	В	343		-10.810		1.00	24.98
	,,	ATOM	2227	N	GLY	В	344		-12.403		1.00	23.91
			2228			В	344		-11.526	•		22.43
		ATOM			GLY					•		
		ATOM	2229	_	GLY	В	344		-11.103		1.00	22.06
	AE	ATOM		0	GLY	В	344	-10.262	-9.934		1.00	20.87
	45	ATOM	2231	N	LEU	B	345		-12.048		1.00	19.36
		ATOM	2232	CA	LEU	B	345		-11.748		1.00	25.74
		ATOM	2233	CB	LEU	В	345		-13.040		1.00	26.78
		ATOM	2234	CG	LEU	В	345	-8.794	-14.010	29.362	1.00	30.04
		ATOM	2235	CD1	LEU	В	345	-8.099	-15.357	29.488	1.00	28.39
	50	ATOM	2236	CD2	LEU	В	345	-9.122	-13.443	30.736	1.00	29.93
		ATOM	2237	С	LEU	В	345	-7.425	-10.822	27.550	1.00	23.24
		MOTA	2238	0	LEU	В	345	-7.037	-9.865	28.212	1.00	23.43
		ATOM	2239	N	LEU	В	346	-6.937	-11.108		1.00	21.92
		ATOM		CA	LEU	В	346		-10.303		1.00	22.71
	55	ATOM		CB	LEU	В	346		-10.962		1.00	23.17
		ATOM	2242	CG	LEU	В	346		-12.331		1.00	20.66
			2242				346					
		ATOM		CD1	LEU	В			-12.916		1.00	18.75
		ATOM	2244	CD2	LEU	B	346		-12.188		1.00	20.84
	60	ATOM		C	LEU	В	346	-6.304	-8.873		1.00	22.99
	60	ATOM	2246	0	LEU	В	346	-5.540			1.00	22.07
		ATOM	2247	N	THR	В	347	-7.516			1.00	20.53
		ATOM	2248	CA	THR	В	347	-7.987	-7.357	24.608	1.00	21.89

	5	ATOM	2249	CB	THR	В	347	-9.152	-7.388 23.601	1.00	21.65
		ATOM	2250	OG1	THR	В	347	-10.218	-8.190 24.123	1.00	19.65
		ATOM	2251	CG2	THR	В	347	-8.676	-7.955 22.262	1.00	22.01
		ATOM	2252	C	THR	В	347	-8.426	-6.590 25.853	1.00	23.60
		MOTA	2253	0	THR	В	347	-8.358	-5.357 25.883	1.00	20.31
	10										
	10	ATOM	2254	N	ASN	В	348	-8.884	-7.314 26.874	1.00	22.27
		MOTA	2255	CA	ASN	B	348	-9.293	-6.667 28.114	1.00	23.99
		MOTA	2256	CB	ASN	В	348	~10.008	-7.642 29.056	1.00	22.32
		ATOM	2257	CG	ASN	B	348	-10.342	-7.022 30.398	1.00	28.26
		MOTA	2258	OD1	ASN	В	348	-9.478	-6.746 31.216	1.00	27.14
	15	ATOM	2259	ND2	ASN	В	348	-11.647	-6.764 30.625	1.00	27.02
		ATOM	2260	C	ASN	B	348	-8.035	-6.120 28.798	1.00	19.48
		ATOM	2261	õ	ASN	В	348	-8.014	-4.991 29.271	1.00	18.26
							349	-6.984	-6.931 28.832	1.00	19.07
		ATOM	2262	N	LEU	В					
	••	ATOM	2263	CA	LEU	В	349	-5.724	-6.516 29.446	1.00	20.37
	20	MOTA	2264	CB	LEU	B	349	-4.716	-7.674 29.434	1.00	18.21
		ATOM	2265	CG	LEU	В	349	-3.297	-7.316 29.889	1.00	18.24
		ATOM	2266	CD1	LEU	B	349	-3.323	-6.904 31.356	1.00	12.44
		ATOM	2267	CD2	LEU	В	349	-2.370	-8.504 29.672	1.00	21.28
		ATOM	2268	С	LEU	В	349	-5.131	-5,307 28.718	1.00	19.92
: nts	25	ATOM	2269	Ö	LEU	В	349	-4.738	-4,322 29.349	1.00	16.56
Ű		ATOM	2270	N	ALA	В	350	-5.067	-5.391 27.391	1.00	16.67
'nĎ							350			1.00	
ľ		ATOM	2271	CA	ALA	В		-4.529	-4.308 26.578		17.11
(X)		ATOM	2272	CB	ALA	В	350	-4.587	-4.690 25.095	1.00	14.15
j		ATOM	2273	С	ALA	В	350	-5.272	-2.988 26.805	1.00	17.92
أس	30	MOTA	2274	0	ALA	В	350	-4.650	-1.926 26.904	1.00	18.71
ļ		ATOM	2275	N	ASP	В	351	-6.600	-3.053 26.857	1.00	17.51
		ATOM	2276	CA	ASP	В	351	-7.409	-1.856 27.074	1.00	16.57
		ATOM	2277	СВ	ASP	В	351	-8.902	-2.202 27.041	1.00	18.97
#! #		ATOM	2278	CG	ASP	В	351	-9.785	-0.974 26.858	1.00	21.80
	35	ATOM	2279	OD1	ASP	В	351	-9.660	-0.292 25.824	1.00	24.62
IJ	,,,	ATOM	2280	OD2	ASP	В	351	-10.604	-0.682 27.754	1.00	22.78
ٔ لیا				C			351	-7.064	-1.228 28.415		16.81
		ATOM	2281		ASP	В				1.00	
ď		ATOM	2282	0	ASP	В	351	-6.963	-0.009 28.534	1.00	15.75
Ū	4.0	ATOM	2283	N	ARG	В	352	-6.894	-2.056 29.438	1.00	13.97
. 042	40	ATOM	2284	CA	ARG	В	352	-6.552	-1.509 30.742	1.00	16.09
		ATOM	2285	CB	ARG	В	352	-6.728	-2.571 31,833	1.00	15.78
		MOTA	2286	CG	ARG	В	352	-8.189	-2.819 32.189	1.00	17.93
		ATOM	2287	CD	ARG	В	352	-8.323	-3.882 33,279	1.00	19.84
		ATOM	2288	NE	ARG	В	352	-8.010	-5.222 32.785	1.00	21.36
	45	ATOM	2289	CZ	ARG	В	352	-7.187	-6,075 33.387	1.00	21.18
		ATOM	2290	NH1	ARG	В	352	-6.579	-5.741 34.516	1.00	20.51
		ATOM	2291	NH2	ARG	В	352	-6.980	-7.275 32.864	1.00	28.51
							352				
		ATOM	2292	C	ARG	В		-5.123	-0.975 30.728	1.00	15.81
	50	ATOM	2293	0	ARG	В	352	-4.835	0.057 31.339	1.00	15.61
	50	ATOM	2294	N	GLU	В	353	-4.231	-1.665 30.019	1.00	15.45
		ATOM		CA	GLU	В	353	-2.838	-1.228 29.935	1.00	16.59
		ATOM	2296	CB	GLU	В	353	-1.990	-2.243 29.168	1.00	14.64
		ATOM	2297	CG	GLU	В	353	-1.554	-3.456 29.973	1.00	18.23
		MOTA	2298	CD	GLU	В	353	-0.620	-4.355 29.176	1.00	22.72
	55	ATOM		OE1	GLU	В	353	-1.099	-5.078 28.275	1.00	21.94
		ATOM		OE2	GLU	B	353	0.599	-4.324 29.442	1.00	24.41
			2300	C			353 353	-2.729	0.119 29.219	1.00	15.85
		ATOM			GLU	В					
		ATOM	2302	0	GLU	В	353	-1.872	0.939 29.540	1.00	13.76
	CO	ATOM	2303	N	LEU	В	354	-3.594	0.335 28.235	1.00	12.93
	60	ATOM	2304	CA	LEU	В	354	-3.556	1.575 27.472	1.00	15.33
		ATOM	2305	CB	LEU	В	354	-4.616	1.534 26.360	1.00	16.44
		MOTA	2306	CG	LEU	В	354	-4.174	0.750 25.112	1.00	17.03

	5	MOTA	2307	CD1	LEU	В	354	-5.373	0.509 24.189	1.00	16.70
		MOTA	2308	CD2	LEU	В	354	-3.069	1.531 24.384	1.00	14.52
		ATOM	2309	С	LEU	В	354	-3.747	2.805 28.361	1.00	12.78
		ATOM	2310	0	LEU	В	354	-3.123	3.850 28.141	1.00	14.28
		ATOM	2311	N	VAL	В	355	-4.600	2.682 29.369	1.00	12.60
	10	ATOM	2312	CA	VAL	В	355	-4.844	3.791 30.279	1.00	16.78
	. •	ATOM	2313	CB	VAL	В	355	-5.925	3.429 31.327	1.00	16.84
		ATOM	2314	CG1	VAL	В	355	-6.070	4.561 32.344	1.00	19.88
		ATOM	2314	CG2	VAL	В	355	-7.254	3.187 30.639	1.00	19.33
									4.161 30.986	1.00	19.33
	16	ATOM	2316	C	VAL	В	355	-3.533			
	15	ATOM	2317	0	VAL	В	355	-3.158	5.328 31.049	1.00	17.30
		MOTA	2318	N	HIS	В	356	-2.826	3.160 31.499	1.00	19.68
		ATOM	2319	CA	HIS	В	356	-1.559	3.418 32.177	1.00	20.64
		ATOM	2320	CB	HIS	В	356	-1.110	2.174 32.945	1.00	21.03
		MOTA	2321	CG	HIS	В	356	-2.018	1.818 34.085	1.00	22.88
	20	ATOM	2322	CD2	HIS	В	356	-3.128	1.045 34.135	1.00	21.70
		ATOM	2323	ND1	HIS	В	356	-1.838	2.312 35.358	1.00	19.24
		ATOM	2324	CE1	HIS	В	356	-2.802	1.860 36.145	1.00	18.84
		MOTA	2325	NE2	HIS	В	356	-3.598	1.088 35.426	1.00	17.92
		ATOM	2326	С	HIS	В	356	-0.479	3.861 31.184	1.00	19.67
	25	ATOM	2327	0	HIS	В	356	0.424	4.614 31.547	1.00	19.61
Ö		ATOM	2328	N	MET	В	357	-0.566	3.413 29.931	1.00	14.92
ľV		ATOM	2329	CA	MET	В	357	0.428	3.830 28.939	1.00	15.13
		ATOM	2330	CB	MET	В	357	0.239	3.099 27.604	1.00	13.94
Ü		ATOM	2331	CG	MET	В	357	1.149	3.631 26.476	1.00	14.71
	30	ATOM	2332	SD	MET	В	357	0.747	3.014 24.826	1.00	17.75
	JŲ	MOTA	2333	CE	MET	В	357	0.746	1.222 25.122	1.00	15.21
4		ATOM	2334	CE	MET	В	357	0.316	5.334 28.699	1.00	14.94
, 4			2335	0	MET	В	357	1.319	6.031 28.560	1.00	17.02
#1		ATOM							5.839 28.659		18.01
	35	MOTA	2336	N	ILE	В	358	-0.909		1.00	
[LJ	33	MOTA	2337	CA	ILE	В	358	-1.122	7.263 28.423	1.00	19.77
Ш		ATOM	2338	CB	ILE	В	358	-2.634	7.577 28.287	1.00	23.11
		ATOM	2339	CG2	ILE	В	358	-2.879	9.080 28.450	1.00	25.00
Ē		ATOM	2340	CG1	ILE	В	358	-3.137	7.105 26.913	1.00	24.19
ā	40	ATOM	2341	CD1	ILE	В	358	-4.600	6.653 26.890	1.00	20.17
_	40	MOTA	2342	С	ILE	В	358	-0.501	8.100 29.550	1.00	22.93
		MOTA	2343	0	ILE	В	358	0.080	9.153 29.299	1.00	23.33
		ATOM	2344	N	ASN	В	359	-0.619	7.631 30.790	1.00	22.34
		ATOM	2345	CA	ASN	В	359	-0.029	8,341 31.924	1.00	23.24
•		ATOM	2346	CB	ASN	В	359	-0.480	7.726 33.224	1.00	25.10
	45	ATOM	2347	CG	ASN	В	359	-1.831	8.171 33.649	1.00	32.65
		ATOM	2348	OD1	ASN	В	359	-2.421	9.069 33.042	1.00	32.98
		ATOM	2349	ND2	ASN	В	359	-2.364	7.549 34.691	1.00	33.87
		ATOM	2350	C	AŞN	В	359	1.473	8.306 31.837	1.00	24.77
		ATOM	2351	0	ASN	В	359	2.152	9,285 32,149	1.00	24.19
	50	ATOM	2352	N	TRP	В	360	1.995	7.149 31.438	1.00	20.82
		ATOM	2353	CA	TRP	В	360	3.439	6.965 31.310	1.00	19.29
		ATOM	2354	СВ	TRP	В	360	3.754	5.524 30.878	1.00	18.59
		ATOM	2355	CG	TRP	В	360	5.085	5.363 30.176	1.00	18.21
		ATOM	2356	CD2	TRP	В	360	5.310	5.308 28.756	1.00	14.38
	55	ATOM	2357	CE2	TRP	В	360	6,698	5.129 28.561	1.00	13.42
		ATOM	2358	CE3	TRP	В	360	4.475	5.392 27.633	1.00	15.52
		ATOM	2359	CD1	TRP	В	360	6.306	5.221 30.762	1.00	13.34
		ATOM	2360	NE1	TRP	В	360	7.283	5.078 29.800	1.00	16.05
	60	ATOM	2361	CZ2	TRP	В	360	7.272	5.032 27.288	1.00	16.84
	60	ATOM	2362	CZ3	TRP	В	360	5.045	5.296 26.363	1.00	15.11
		ATOM	2363	CH2	TRP	В	360	6.431	5.115 26.202	1.00	16.12
		MOTA	2364	C	TRP	В	360	3.979	7.939 30.273	1.00	20.13
		•						190			

	5	ATOM '	2365	0	TRP	В	360	4.991	8.606 30.497	1.00	17.26
		MOTA	2366	N	ALA	В	361	3.295	8.012 29.135	1.00	19.34
		ATOM	2367	CA	ALA	В	361	3.708	8.900 28.051	1.00	22.01
		ATOM	2368	CB	ALA	В	361	2.682	8.855 26.921	1.00	19.53
		ATOM	2369	C	AĻA	B	361	3.883	10.336 28.552	1.00	22.39
	10	MOTA	2370	ð	ALA	B	361	4.858	11,005 28.210	1.00	19.57
		ATOM	2371	Ŋ	LYS	В	362	2.932	10.794 29.361	1.00	21.96
		MOTA	2372	CA	LYS	В	362	2.966	12.139 29.923	1.00	26.45
		MOŢA	2373	CB	LYS	B	362	1.741	12.363 30,811	1.00	29.79
		ATOM	2374	CG	LYS	B	362	0.426	12.417 30.064	1.00	33.57
	15	ATOM	2375	CD	LYS	B	362	-0.563	13.304 30,805	1.00	36.83
		ATOM	2376	CE	LYS	B	362	-1.620	12.490 31.512	1.00	36.89
		ATOM	2377	NZ	LYS	B	362	-2.873	13.276 31.664	1.00	39.07
		ATOM	2378	,C	LYS	B	362	4.223	12.379 30.757	1.00	27.77
		MOTA	2379	Ø	LYS	В	362	4.661	13.517 30.922	1.00	26.93
	20	ATOM	2380	N	ARG	В	363	4.805	11.302 31,278	1.00	26.61
		ATOM	2381	CA	ARG	В	363	5.996	11.414 32.109	1.00	27.74
		ATOM	2382	СВ	ARG	В	363	5.887	10.457 33.298	1.00	28.93
		ATOM	2383	eg	ARG	В	363	4.650	10.704 34.158	1.00	36.07
		ATOM	2384	CD	ARG	В	363	4.569	9.745 35.344	1.00	42.83
	25	ATOM	2385	NE	ARG	В	363	4.477	8.344 34.928	1.00	49.79
Ö		MOTA	2386	ĆZ	ARG	В	363	3.395	7.582 35.080	1.00	51.48
IJ		ATOM	2387	NH1	ARG	В	363	2.300	8.081 35.648	1.00	52.17
		MOTA	2388	NH2	ARG	В	363	3.405	6.316 34.668	1.00	40.24
ij		ATOM	2389	C	ARG	В	363	7.308	11,190 31.367	1.00	25.80
	30	ATOM	2390	0	ARG	В	363	8.374	11.183 31.975	1.00	29.36
	50	ATOM	2391	N	VAL	В	364	7.231	11.009 30.053	1.00	24.28
jæ5		ATOM	2392	CA	VAL	В	364	8.431	10.823 29.248	1.00	21.87
'		ATOM	2393	CB	VAL	В	364	8.116	10.048 27.947	1.00	21.84
fi 1995.		ATOM	2394	CG1	VAL	В	364	9.267	10.184 26.968	1.00	15,85
	35	ATOM	2395	CG2	VAL	В	364	7.860	8.560 28.268	1.00	16.24
IJ	55	ATOM	2396	C	VAL	В	364	8.925	12.241 28.923	1.00	28.14
لدا		ATOM	2397	0	VAL	В	364	8.219	13.023 28.285	1.00	24.24
		ATOM	2398	Ŋ	PRO	В	365	10.141	12.591 29.375	1.00	28.57
ű		ATOM	2399	CD	PRO	В	365	11.061	11.726 30.137	1.00	30.58
ιĐ	40	ATOM	2400	CA	PRO	В	365	10.719	13.919 29.138	1.00	32.16
	40	ATOM	2401	CB	PRO	В	365	12.189	13.739 29.507	1.00	32.70
		ATOM	2402		PRO	В	365	12.170	12.671 30.545	-	33.35
		ATOM	2402		PRO	В	365	10.546	14.464 27,726	1.00	32.22
		ATOM	2404		PRO		365	11.056	13.897 26.766	1.00	37.04
	45					В	366	9.821	15.570 27.609	1.00	
	43	ATOM	2405	N	GLY	В	366	9.612	16.182 26.310	1.00	34.09
		ATOM		CA	GLY	В					32.54
		ATOM	2407	C	GLY	В	366	8.241	15.969 25.700	1.00	33.46
		ATOM	2408	0	GLY	В	366	7.791	16.779 24.886	1.00	33.73
	50	ATOM	2409	N	PHE	В	367	7.564	14.895 26.096	1.00	31.08
	50	MOTA	2410	CA	PHE	В	367	6.250	14.593 25.542	1.00	28.60
		ATOM	2411	CB	PHE	В	367	5.745	13.244 26.058	1.00	25.96
		MOTA	2412	CG	PHE	В	367	4.629	12.671 25.239	1.00	22.75
		ATOM	2413	CD1	PHE	В	367	3.313	12.771 25.669	1,00	22.62
	<i></i>	ATOM		CD2	PHE	B	367	4.897	12.025 24.033	1.00	22.29
	55	ATOM		CE1	PHE	В	367	2.272	12.233 24.914	1.00	25.63
		ATOM	2416	CE2	PHE	В	367	3.867	11.486 23.272	1.00	20.82
		MOTA	2417	CZ	PHE	В	367	2.553	11.588 23.711	1.00	25.50
		ATOM	2418	С	PHE	В	367	5.178	15.646 25.781	1.00	26.79
		ATOM	2419		PHE	В	367	4.458	16.001 24.854	1.00	23.37
	60	MOTA	2420	N	VAL	В	368	5.049	16.143 27.009	1,00	31.26
		ATOM	2421	CA	VAL	В	368	4.020	17.151 27.277	1.00	35.71
		MOTA	2422	CB	VAL	В	368	3.817	17.412 28.795	1.00	35.98

	5	ATOM	2423	CG1	VAL	В	368	2.944	16.320 29,392	1.00	37.64
		ATOM	2424	CG2	VAL	B	368	5.157	17.495 29.508	1.00	35.81
		ATOM	2425	C	VAL	В	368	4.328	18.482 26.598	1.00	35.87
		ATOM	2426	0	VAL	В	368	3.450	19.330 26.457		37.71
		ATOM	2427	N	ASP	В	369	5.572	18.665 26.175		35.49
	10	ATOM	2428	CA	ASP	В	369	5.950	19.904 25.503	1.00	36.54
	10										
		ATOM	2429	CB	ASP	B	369	7.466	19.963 25.309	1.00	39.79
		ATOM	2430	CG	ASP	В	369	8.213	20.169 26.615		44.33
		MOTA	2431	OD1	ASP	В	369	9.409	19.807 26.684	1.00	48.45
		ATOM	2432	OD2	asp	B	369	7.604	20.693 27.572	1.00	43.27
	15	ATOM	2433	C	ASP	В	369	5.248	19.997 24.149	1.00	34.49
		ATOM	2434	0	ASP	В	369	5.131	21.074 23.571	1.00	34.51
		ATOM	2435	N	LEU	В	370	4.776	18.859 23.653		30.97
		ATOM	2436	CA	LEU	B	370	4.086	18.809 22.370	1.00	29.80
						В	370	4.145	17.389 21.799	1.00	27.27
	30	MOTA	2437	CB	rĖū						
	20	ATOM	2438	CG	LEU	В	370	5.522	16.733 21.688	1.00	28.07
		MOTA	2439	CD1	LEU	В	370	5.353	15.242 21.400	1.00	30.38
		MOTA	2440	CD2	LEU	В	370	6.316	17.396 20.574	1.00	22.82
		MOTA	2441	C	LEU	B	370	2.628	19.218 22.521	1.00	28.04
		ATOM	2442	0	LEU	В	370	2.066	19.151 23.611	1.00	29.71
	25	ATOM	2443	N	THR	В	371	2.011	19.645 21.425	1.00	28.70
		ATOM	2444	CA	THR	В	371	0.602	20.014 21.474	1.00	30.31
Ď		ATOM	2445	CB	THR	В	371	0.150	20.690 20.163	1.00	31.96
iЛ							371				
(X)		ATOM	2446	OG1	THR	В		0.284	19.763 19.080	1.00	29.49
4	••	ATOM	2447	CG2	THR	В	371	0.991	21.930 19.878	1.00	29,98
1	30	MOTA	2448	C	THR	В	371	-0.208	18.726 21.666	1.00	30.59
4		MOTA	2449	0	THR	В	371	0.300	17.624 21.431	1.00	27.10
1		ATOM	2450	N	LEU	B	372	-1.461	18.863 22.087	1.00	27.65
21		ATOM	2451	CA,	LEU	В	372	-2.323	17.702 22.303	1.00	30.86
		ATOM	2452	CB	LEU	В	372	-3.722	18.147 22,737	1.00	30.11
	35	ATOM	2453	CG	LEU	В	372	-4.715	17.006 22.960		32,80
I.U		ATOM	2454	CD1	LEU	В	372	-4.231	16.147 24.126	1.00	34.10
Į,J		MOTA	2455	CD2	LEU	В	372	-6.105	17.562 23.246	1.00	31.16
Ü								-2.437	16.863 21.034		
Ğ, Q,		ATOM	2456	C	LEU	В	372		•	1.00	31.77
ŧØ	48	ATOM	2457	0	LEU	В	372	-2.417	15.629 21.078	1.00	27.06
	40	ATOM	2458	N	HIS	В	373	-2.564	17.548 19.905	1.00	31.30
•		ATOM	2459	CA	HIS	B	373	-2.685	16.888 18.614	1.00	31.35
		MOTA	2460	CB	HIS	В	373	-2.844	17.935 17.503	1,00	34.30
		MOTA	2461	ÇG	HIS	В	373	-2.503	17.430 16.132	1.00	41.27
		MOTA	2462	CD2	HIS	В	373	-3.293	17.105 15.079	1.00	42.50
	45	ATOM	2463	ND1	HIS	В	373	-1.205	17.220 15.715		43.69
		ATOM	2464	CE1	HIS	В	373	-1.210	16.787 14.465	1.00	48.87
	,	ATOM	2465	NE2	HIS	В	373	-2.465	16.708 14.056	1.00	43.72
		ATOM	2466	C	HIS	В	373	-1.468	16.012 18.337	1.00	28.29
		ATOM	2467	0	HIS	В	373	-1.610	14.878 17.897	1.00	30.21
	50	ATOM	2468	N	ASP	В	374	-0.275	16.541 18.589	1.00	28.85
		MOTA	2469	CA	ASP	В	374	0.950	15.783 18.350	1.00	28.28
		ATOM	2470	CB	ASP	В	374	2.178	16.678 18.535	1.00	31.33
		ATOM	2471	CG	ASP	В	374	2,433	17.577 17.333	1.00	39.07
		ATOM		OD1	ASP	В	374	3.195	18.557 17.478	1.00	40.60
	55	ATOM		OD2	ASP	В	374	1.874	17.305 16.246	1.00	38.64
		ATOM					374	1.029	14.592 19.303	1.00	29.05
				C	ASP	В					
		ATOM		0	ASP	В	374	1.432	13.494 18.908	1.00	24.26
		ATOM		N	GLN	В	375	0.642	14.814 20.556	1.00	24.52
		ATOM		CA	GLN	В	375	0.667	13.749 21.547	1.00	27.37
	60	ATOM	2478	CB	GLN	В	375	0.213	14.270 22,901	1.00	26.66
		ATOM	2479	CG	GLN	В	375	1,164	15.236 23.563	1.00	29.74
		ATOM	2480	CD	GLN	В	375	0.623	15.691 24.890	1.00	33.13
			-					100		•	

	5	MOTA	2481	OE1	GLN	В	375	-0.044	14.953 25.602	1.00	32.82
		MOTA	2482	NE2	GLN	В	375	0.895	16.953 25.236	1.00	33.98
		ATOM	2483	C	GLN	В	375	-0.259	12.630 21.104	1.00	24.52
		ATOM	2484	0	GLN	В	375	0.074	11.451 21.221	1.00	23.56
		ATOM	2485	N	VAL	В	376	-1.426	13.013 20.599	1.00	21.87
	10	ATOM	2486	CA	VAL	В	376	-2.409	12.055 20.140	1.00	23.44
	•	ATOM	2487	CB	VAL	В	376	-3.718	12.760 19.717	1.00	22.09
		ATOM	2488	CG1	VAL	В	376	-4.572	11.823 18.877	1,00	24.14
		ATOM	2489	CG2	VAL	B	376	-4.486	13.192 20.954	1.00	16.96
		ATOM	2490	6	VAL	В	376	-1.852	11.257 18.965	1.90	24.15
	15	MOTA	2491	6	VAL	В	376	-1.949	10.032 18.938	1.00	22.26
	13	MOTA	2492	N	HIS	В	377	-1.251	11.953 18.007	1.00	25.85
		MOTA	2493	CA	HIS	В	377	-0.689	11.284 16.843	1.00	25.68
			•				377 377		12.306 15.886	1,00	25.00 25.27
		MOTA	2494	CB	HIS	В		-0.078			-
	30	MOTA	2495	CG	HIS	B	377	0.535	11.690 14.667	1.00	30.63
	20	ATOM	2496	CD2	HIS	В	377	1.828	11.559 14.287	1.00	31.03
		MOTA	2497	ND1	HIS	В	377	-0.217	11.086 13.683	1.00	35.05
		ATOM	2498	CE1	HIS	В	377	0.588	10,607 12.750	1.60	33.12
		MOTA	2499	NE2	HIS	В	377	1,833	10.882 13.093	1,00	31.06
	• •	MOTA	2500	C	HIS	В	377	0.365	10.237 17.210	1.00	24.37
	25	ATOM	2501	0	HIS	В	377	0.321	9.109 16.719	1.00	21.47
Ď		ATOM	2502	N	LEU	В	378	1.307	10.609 18.072	1.00	19.24
ľ		MOTA	2503	CA	LEU	В	378	2.365	9.691 18.474	1.00	20.09
Ü		MOTA	2504	CB	LEU	В	378	3.363	10.402 19.388	1.00	18.64
4		MOTA	2505	CG	LEU	В	378	4.230	11.489 18.736	1.00	22.15
14	30	MOTA	2506	CD1	LEU	В	378	5.104	12.148 19.796	1.00	22.51
4		ATOM	2507	CD2	LEU	В	378	5.094	10.885 17.638	1.00	20.68
W		MOTA	2508	C	LEU	В	378	1.832	8.433 19.161	1.00	18.91
E1		MOTA	2509	0	LEU	В	378	2.262	7.320 18.859	1.00	17.52
		ATOM	2510	N	LEU	В	379	0.888	8.610 20.077	1.00	18.25
IJ	35	ATOM	2511	CA	LEU	В	379	0.317	7.486 20.795	1.00	18.60
W		MOTA	2512	CB	LEU	В	379	-0.526	7.989 21.968	1.00	16.77
Ö		ATOM	2513	CG	LEU	В	379	0,292	8.353 23.214	1.00	17.90
Ü		ATOM	2514	CD1	LEU	В	379	-0.578	9.092 24.211	1.00	15.84
Ğ		ATOM	2515	CD2	LEU	В	379	0.851	7,075 23.842	1.00	22.09
493	40	MOTA	2516	C	LEU	₿	379	-0.518	6.605 19.872	1.00	20.17
		ATOM	2517	0	LEU	В	379	-0.476	5.377 19.968	1.00	18.11
		ATOM	2518	N	GLU	В	380	-1.273	7.222 18.971	1.00	19.40
		ATOM	2519	CA	GLU	В	380	-2.086	6.435 18.049	1.00	20.19
		ATOM	2520	CB	GLU	В	380	~2.994	7.350 17.222	1.00	22.43
	45	ATOM	2521	CG	GLÜ	В	380	-4.182	7.874 18.007	1.00	25.30
		ATOM	2522	CD	GLU	В	380	-5.070	8.789 17.188	1.00	29.44
		ATOM	2523	OE1	GLU	В	380	-6.206	9.066 17.625	1.00	31.70
		ATOM	2524	OE2	GLU	В	380	-4.631	9.230 16.110	1.00	31.75
		ATOM	2525	C	GLU	В	380	-1.210	5.594 17.117	1.00	18.92
	50	ATOM	2526	Ö	GLU	В	380	-1.586	4.491 16.722	1.00	19.83
		ATOM	2527	N	ACYS	В	381	~0.039	6.113 16.772	0.75	17.41
		ATOM	2528	N	BCYS	В	381	÷0.035	6.113 16.779	0.25	17.76
		ATOM	2529	CA		В	381	0.860	5.384 15.887	0.75	20.19
		ATOM	2530	CA		В	381	0.875	5.407 15.884	0.25	17.50
	55	ATOM	2530	CB	ACYS		381	1.870	6.342 15.248	0.75	24.20
	J J	ATOM	2531 2532	CB	BCYS		381		6.406 15.226	0.75	16.63
								1.830			
		MOTA	2533	SG	ACYS		381	1.167	7.518 14.060	0.75	33.54
		ATOM	2534	SG	BCYS		381	3.048	5.656 14.128	0.25	10.36
	60	ATOM	2535	C	ACYS		381	1.626	4.269 16.592	0.75	20.59
	00	ATOM		C	BCYS		381	1.689	4.305 16.561	0.25	19.19
		ATOM	2537		ACYS		381	1.737	3.161 16.069		19.16
		ATOM	2538	9	BCYS	B	381	1.904	3.241 15.982	0.25	19.25

	5	MOTA	2539	N	ALA	В	382	2.134	4.560 17.785	1.00	19.04
		ATOM	2540	CA	ALA	В	382	2.955	3.602 18.530	1.00	20.27
		MOTA	2541	CB	ALA	В	382	4.135	4.364 19.143	1.00	18.68
		MOTA	2542	С	ALA	В	382	2.356	2.702 19.607	1.00	16,82
		ATOM	2543	0	ALA	В	382	3.070	1.852 20.142	1.00	13.37
	10	ATOM	2544	N	TRP	В	383	1.074	2.855 19.916	1.00	15.30
		ATOM	2545	CA	TRP	В	383	0.487	2.089 21.013	1.00	15.80
		ATOM	2546	CB	TRP	В	383	-1.009	2.410 21.160	1.00	16.63
		ATOM	2547	CG	TRP	В	383	-1.871	1.775 20.129	1.00	19.93
		MOTA	2548		TRP	В	383	-2.493	0.483 20.198	1.00	20.80
	15	ATOM	2549	CE2	TRP	В	383	-3.226	0.309 19.003	1.00	19.27
		MOTA	2550	CE3	TRP	В	383	-2.506	-0.542 21.155	1.00	21.32
		MOTA	2551	CD1	TRP	В	383	-2.236	2.312 18.933	1.00	18.59
		ATOM	2552	NEl	TRP	В	383	-3.051	1.439 18.250	1.00	23.67
		ATOM	2553	CZ2	TRP	В	383	-3.963	-0.853 18.733	1.00	21.55
	20	MOTA	2554	CZ3	TRP	В	383	-3.243	-1.702 20.888	1,00	20.29
	-	ATOM	2555	CH2	TRP	В	383	-3.960	-1.844 19.686	1.00	19.03
		ATOM	2556	C	TRP	В	383	0.701	0.579 21.020	1.00	17.35
		ATOM	2557	Õ	TRP	В	383	0.982	0.010 22.077	1.00	13.92
		ATOM	2558								
	25			N	LEU	В	384	0.568	-0.087 19.879	1.00	14.07
	25	ATOM	2559	CA	LEU	B	384	0.773	-1.532 19.903	1.00	15.98
Û		ATOM	2560	CB	LEU	В	384	0.181	-2.200 18.656	1.00	12.19
IJ		ATOM	2561	CG	LEU	В	384	0.173	-3.735 18.720	1.00	12.97
Œ		ATOM	2562	CD1	LEU	В	384	-0.352	-4.240 20.089	1.00	10.65
j.d.		ATOM	2563	CD2	LEU	В	384	-0.707	-4.259 17.586	1.00	17.84
·	30	ATOM	2564	C	LEU	В	384	2.262	-1.861 20.034	1.00	14.64
ļei.		ATOM	2565	0	LEU	В	384	2.627	-2.833 20.690	1.00	13,78
/v]		ATOM	2566	N	GLU	В	385	3.116	-1.046 19.414	1.00	14.96
-4		ATOM	2567	CA	GLU	В	385	4.565	-1.260 19.509	1.00	13.79
E)		ATOM	2568	CB	GLU	В	385	5.336	-0.179 18.739	1.00	15.34
	35	ATOM	2569	CG	GLU	В	385	5.297			
Ш	,								-0.312 17.207	1.00	15.38
ليا		ATOM	2570	CD	GLU	В	385	6.162	0.738 16,520	1.00	23.97
		ATOM	2571	OE1	GLU	В	385	7.381	0.500 16.358	1.00	21.03
Ō		ATOM	2572	OE2	GLU	В	385	5.622	1.808 16.149	1.00	22.19
Ō		ATOM	2573	C	GLU	В	385	4.963	-1.161 20.987	1.00	15.79
, 1227	40	ATOM	2574	0	GLU	В	385	5.788	-1.942 21.463	1.00	15.04
		MOTA	2575	N	ILE	В	386	4.389	-0.213 21.690	1.00	13.32
		ATOM	2576	CA	ILE	В	386	4.723	-0.019 23.108	1.00	14.06
		ATOM	2577	CB	ILE	В	386	4.173	1.326 23.614	1.00	15.36
		ATOM	2578	CG2	ILE	В	386	4.374	1.451 25.130	1.00	15.97
	45	ATOM	2579		ILE	В	386	4.910	2.476 22.907	1.00	17.95
		ATOM		CD1	ILE	В	386	4.118	3.768 22.874	1.00	21.12
		ATOM	2581	C	ILE	В	386	4.227	-1.164 23.993	1.00	14.97
		ATOM	2582								
				0	ILE	В	386	4.905	-1.560 24.941	1.00	19.60
	60	ATOM	2583	N	LEU	В	387	3.038	-1.675 23.709	1.00	15.18
	50	MOTA		CA	LEU	В	387	2.516	-2.791 24.478	1.00	15.98
		MOTA	2585	CB	LEU	В	387	1.070	-3.097 24.080	1.00	17.15
		ATOM	2586	CG	LEU	В	387	-0.031	-2.113 24.486	1.00	19.65
		ATOM	2587	CD1	LEU	В	387	-1.371	-2.628 23.972	1.00	17.77
		ATOM	2588	CD2	LEU	В	387	-0.075	-1.966 26.002	1.00	15.38
	55	ATOM		C	LEU	В	387	3.391	-4.013 24.180	1.00	14.69
		ATOM		Ō	LEU	В	387	3.712	-4.792 25.076	1.00	14.03
		ATOM	2591	N	MET	В	388	3.785	-4.178 22.921	1.00	16.43
		ATOM	2592	CA	MET	В	388	4.602	-5.329 22.547	1.00	16.67
		ATOM	2593	CB	MET	В	388	4.673	-5.460 21.026		
	60									1.00	14.83
	50	ATOM	2594	CG	MET	В	388	3.403	-6.066 20.453	1.00	13.91
		MOTA	2595	SD	MET	B	388	3.364	-6.193 18.675		17.23
		MOTA	2596	CE	MET	В	388	1.906	-7.225 18.511	1.00	14.97

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	5	ATOM	2597	С	MET	B	388	6.004	-5.332 2		1.00	20.19
		MOTA	2598	0	MET	В	388	6.460	-6.366 2		1.60	21.50
		MOTA	2599	N	ILE	В	389	6.707	-4.203 2	•	1.00	15.34
		ATOM	2600	CA	ILE	B	389	8.044	-4.209 2	3.634	1.00	15.59
		MOTA	2601	CB	ILE	В	389	8.836	-2.911	3.322	1.00	14.95
	10	ATOM	. 2602	CG2	ILE	В	389	8.330	-1.746 2	24.158	1.00	12.81
		ATOM	2603	CG1	ILE	В	389	10.325	-3.164 2	3.602	1.00	17.24
		ATOM	2604	CD1	ILE	В	389	11.228	-1.972 2		1.00	15.65
		ATOM	2605	C	ILE	В	389	7.950	-4.446 2		1.00	14.30
		ATOM	2606	ō	ILE	В	389	8.844	-5.044		1.00	18.72
	15										1.00	13.99
	15	ATOM	2607	N	GLY	B	390	6.855	-4.007 2			
		ATOM	2608	CA	GLY	В	390	6.681	-4.219		1.00	14.87
		AŢOM	2609	C	GĻY	B	390	6.444	-5.702 2		1.00	18.54
		MOTA	2610	O	GLY	B	390	6.989	-6.282 2		1.00	16.54
		ATOM	2611	N	LEU	В	391	5.623	-6.325	36.628	1.00	16.15
	20	MOŢA	2612	CA	LEU	В	391	5.334	-7.743 2	36.775	1.00	18.91
		MOTA	2613	CB	LEU	В	391	4.332	-8.179 2	25.699	1.00	19.55
		ATOM	2614	CG	LEU	В	391	4.157	-9.689 2		1.00	20.91
		ATOM	2615	CD1	LEU	В	391	3.580	-10.351 2		1.00	19.41
		MOTA	2616	CD2	LEU	В	391	3.232	-9.913		1.00	20.70
	25			C	LEU	В	391	6.649	-8.518		1.00	20.31
13	23	MOTA	2617									18.66
Ü		MOTA	2618	0	LEU	В	391	7.002	-9.352 2		1.00	
IU		ATOM	2619	N	VAL	В	392	7.378	-8.215 2		1.00	18.71
Ü		MOTA	2620	CA	VAL	В	392	8.649	-8.868		1.00	19.51
		ATOM	2621	CB	VAL	В	392	9.288	-8.281, 2		1.00	23.77
`~ j	30	ATOM	2622	CG1	VAL	В	392	10.751	-8.687 2	23.920	1.00	24.63
		MOTA	2623	CG2	VAL	В	392	8.520	-8.773	22.767	1.00	19.94
, r ^a		ATOM	2624	С	VAL	В	392	9.615	-8.707 2	26.450	1.00	22,80
		ATOM	2625	0	VAL	В	392	10.336	-9.637 2	26.811	1.00	19.36
ii Atas		ATOM	2626	N	TRP	В	393	9.617	-7.522 2		1.00	22.10
ات لدا	35	ATOM	2627	CA	TRP	В	393	10.492	-7.241 2		1.00	23.20
W	33	ATOM	2628	CB	TRP	В	393	10.388	-5.773		1.00	19.22
l,			2629	CG	TRP	В	393	11.056	-5.479		1.00	22.53
		ATOM										20.36
Ü		ATOM	2630	CD2	TRP	В	393	12.453	-5.591 3		1.00	
Ū	40	ATOM	2631	CE2	TRP	В	393	12.624	-5.208 3		1.00	25.65
- 1003*	40	ATOM	2632	CE3	TRP	В	393	13.578	-5.976		1.00	22.12
		MOTA	2633	CD1	TRP	В	393	10.452	-5.046 3		1.00	23.02
		MOTA	2634	NE1	TRP	В	393	11.387	-4.881 3		1.00	24.91
		MOTA	2635	CZ2	TRP	В	393	13.876	-5.200 3	32.171	1.00	23.00
		ATOM	2636	CZ3	TRP	В	393	14.829	-5.968 3	30.072	1.00	23.98
	45	MOTA	2637	CH2	TRP	В	393	14.964	-5.582 3	1.423	1.00	23.20
		ATOM	2638	С	TRP	В	393	10.208	-8.114 2	29.388	1.00	24.36
		ATOM	2639	0	TRP	В	393	11.128	-8.717 2		1.00	23.04
		ATOM	2640	N	ARG	В	394	8.952	-8.189		1.00	21.29
		ATOM	2641	CA	ARG	В	394	8.680	-9.003 3		1.00	22.43
	50							7.365	-8.601 3		1.00	23.97
	30	ATOM	2642	CB	ARG	В	394					
		ATOM	2643	CG	ARG	В.	394	6.259	-8.149 3		1.00	26.16
		MOTA	2644	CD	ARG	В	394	5.026	-7.727 3		1.00	20.86
		ATOM	2645	NE	ARG	В	394	3.817	-7.937 3		1.00	19.54
		ATOM	2646	CZ	ARG	В	394	3.327	-7.059 2		1.00	20.58
	55	ATOM	2647	NHl	ARG	В	394	3.944	-5.902 2	29.722	1.00	17.41
		ATOM	2648	NH2	ARG	В	394	2.229	-7.347 2	9.220	1.00	16.82
		ATOM	2649	C	ARG	В	394	8.695			1.00	21.78
		ATOM	2650	0	ARG	В	394		-11.294 3		1.00	23.44
		ATOM	.2651	N	SER	В	395		-10.880 2		1.00	17.10
	60	ATOM	2652	CA	SER	В	395		-12.289 2		1.00	25.08
		ATOM	2653	СВ	SER	В	395		-12.473 2		1.00	19.47
		ATOM	2654	OG	SER	В	395	6.832			1.00	21.73
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	5	MOTA	2655	Ç	SER	В	395	10.239	-12.831	29.031	1.00	26.29
		MOTA	2656	0	SER	В	395	10.458	-14.030	28.854	1.00	23.75
		MOTA	2657	N	MET	В	396	11.206	-11.938	29.210	1.00	30.79
		MOTA	2658	CA	MET	В	396	12.620	-12.307	29.205	1.00	35.07
		MOTA	2659	CB	MET	В	396	13.479	-11.063	29.423	1.00	33.84
	10	ATOM	2660	CG	MET	В	396	14.155	-10.569	28.171	1.00	36.88
		MOTA	2661	SD	MET	В	396	15.149	-9.127	28.491	1.00	40.96
		MOTA	2662	CE	MET	В	396	16.675	-9.849	28.998	1.00	39.67
		MOTA	2663	С	MET	B	396	12.983	-13.353	30.250	1.00	35.88
		MOTA	2664	0	MET	В	396	13.828	-14.215	30.011	1.00	34.52
	15	ATOM	2665	N	GLU	В	397	12.348	-13.266	31.410	1.00	36.19
		MOTA	2666	CA	GLU	В	397	12.604			1.00	39.24
		ATOM	2667	ÇВ	GLU	В	397	12.153			1.00	44.38
	•	ATOM	2668	CG	GLU	В	397	12.983			1.00	54.05
		ATOM	2669	CD	GLU	В	397	13.483			1.00	56.78
	20	ATOM	2670	OE1	GLU	В	397		-11.621		1.00	60.90
		ATOM	2671	OE2	GLU	B	397	13.975			1.00	60.82
		ATOM	2672	C	GLU	В	397	11.878			1.00	36.65
		ATOM	2673	Ö	GLU	В	397	12.021			1.00	35.84
		ATOM	2674	N	HIS	В	398	11.100			1.00	32.14
, ma	25	ATOM	2675	CA	HIS	В	398	10.347			1.00	29.48
		ATOM	2676	CB	HIS	В	398	8.863			1.00	29.87
ים טו		ATOM	2677	CG	HIS	В	398		-16.111		1.00	31.80
ij		ATOM	2678	CD2	HIS	В	398		-16.801		1.00	29.12
		ATOM	2679	ND1	HIS	В	398		-14.799		1.00	33.27
	30	ATOM	2680	CE1	HIS	В	398		-14.701		1.00	32.19
_		ATOM	2681	NE2	HIS	В	398		-15.902		1.00	33.48
ا ا		ATOM	2682	C	HIS	В	398	10.556			1.00	25.95
14		ATOM	2683	Õ	HIS	В	398	9.637			1.00	27.47
91 21 000a		ATOM	2684	N	PRO	В	399		-17.801		1.00	29.09
	35	ATOM	2685	CD	PRO	В	399		-17.922		1.00	29.93
W	33	ATOM	2686	CA	PRO	В	399	12.079			1.00	27.40
ليا		ATOM	2687	CB	PRO	В	399		-18.988		1.00	32.09
		ATOM	2688	CG	PRO	В	399		-18.284		1.00	30.81
Ō		ATOM	2689	C	PRO	В	399		-19.246		1.00	29.76
Û	40	ATOM	2690	Õ	PRO	В	399		-20.137		1.00	29.18
		ATOM	2691	N	GLY	В	400		-19.035		1.00	27.45
		ATOM	2692		GLY	В	400		-19.884		1.00	26.93
		ATOM	2693	C	GLY	В	400		-19.537		1.00	26.73
		ATOM	2694	Ö	GLY	В	400		-20.153		1.00	28.36
	45	ATOM	2695	N	LYS	В	401		-18.554		1.00	25.50
		ATOM	2696	CA	LYS	В	401		-18.139		1.00	23.45
		ATOM	2697	CB	LYS	В	401		-18.563		1.00	28.50
		ATOM	2698	CG	LYS	В	401		-20.069		1.00	28.58
		ATOM	2699	CD	LYS	В	401		-20.353		1.00	35.47
	50	ATOM	2700	CE	LYS	В	401		-21.847		1.00	38.59
	50	ATOM	2701	NZ	LYS	B	401		-22.611		1.00	42.39
		ATOM	2702	C	LYS	В	401		-16.622		1.00	
		ATOM	2702	0	LYS	В	401		-15.872		1.00	21.78
		ATOM	2703	N	LEU		401					21.45
	55	ATOM	2704	CA	LEU	B B	402		-16.181 -14.759		1.00	23.45
	<i>J J</i>										1.00	21.37
		ATOM ATOM	2706 2707	CB	LEU	В	402		-14.449		1.00	18.47
		ATOM		CG	LEU	B	402		-14.673		1.00	16.89
		ATOM	2708	CD1	LEU	В	402		-14.395		1.00	21.23
	60	ATOM	2709	CD2	LEU	В	402		-13.760		1.00	23.15
	50	ATOM	2710	C	LEU	B	402		-14.399		1.00	19.66
			2711	O N	LEU	В	402		-14.880		1.00	18.05
		ATOM	2712	14	LEU	В	403	4.743	-13.559	Z9.U19	1.00	19.54

	ø			~-		_	400					
	3	ATOM	2713	CA	LEU	В	403		-13.148		1.00	20.21
		MOTA	2714	CB	Leu	В	403		-12.856		1.00	23.16
		MOTA	2715	CG	LEU	В	403	4.639	-12.682	32.766	1.00	29.54
		MOTA	2716	CD1	LEU	В	403	5.519	-13.450	33.728	1.00	32.67
		ATOM	2717	CD2	LEU	В	403	4.626	-11.213	33.138	1.00	32.38
	10	ATOM	2718	C	LEU	В	403	3.219	-11.918	30.043	1.00	20.42
		ATOM	2719	0	LEU	В	403	3.638	-10.787	30.291	1.00	19.18
•		ATOM	2720	N	PHE	В	404	2.003			1.00	21.44
		ATOM	2721	CA	PHE	В	404		-11.053		1.00	21.69
		ATOM	2722	CB	PHE	В	404		-11.598		1.00	17.26
	15	ATOM	2723	CG	PHE	В	404		-11.897		1.00	19.75
	13	ATOM	2723	CD1	PHE	В	404	0.364			1.00	17.90
									· ·			
		ATOM	2725	CD2	PHE	В	404	-0.210			1.00	17.04
		ATOM	2726	CE1	PHE	В	404	0.572	-		1.00	19.88
	20	ATOM	2727	CE2	PHE	В	404	-0.007			1.00	18.47
	20	ATOM	2728	CZ	PHE	B	404	0.386	-12.418		1.00	16.45
		ATOM	2729	C	PHE	В	404	0.768	-10,403		1,00	21.95
		ATOM	2730	0	PHE	В	404	0.656		30.804	1.00	22.99
		MOTA	2731	N	ALA	B	405	0.670			1.00	21.12
		MOTA	2732	CA	ALA	В	405	0.424	-10.814	33.066	1.00	22.43
13	25	MOTA	2733	CB	ALA	B	405	-1.074	-10.603	33.304	1.00	24,69
Ď		ATOM	2734	C	ALA	В	405	0.959	-11.926	33.962	1.00	22.40
เป็		ATOM	2735	0	ALA	B	405	1.133	-13.061	33.517	1.00	21.67
ĺΣ		ATOM	2736	N	PRO	В	406	1.246	-11.612	35.230	1.00	25.60
		ATOM	2737	CD	PRO	В	406	1.129			1.00	23.65
₩	30	ATOM	2738	CA	PRO	В	406		-12.632		1.00	25.91
		MOTA	2739	CB	PRO	В	406		-11.882		1.00	27.04
ڪور		ATOM	2740	CG	PRO	В	406		-10.431		1.00	26.56
114		MOTA	2741	C	PRO	В	406		-13.873		1.00	25.12
¥!		ATOM	2742	0	PRO	В	406		-14.967		1.00	28,92
	35		2742	N	ASN	В	407		-13.713		1.00	23.53
ļψ	33	ATOM										
		ATOM	2744	CA	ASN	В	407	-1.345			1.00	24.09
		MOTA	2745	CB	asn	В	407	-2.553	-14.526		1.00	24.08
۱Ö		ATOM	2746	CG	ASN	В	407	-3.327			1.00	26.72
۱Ð	40	ATOM	2747		ASN	В	407	-2.851	-12.574		1.00	22.65
	40	ATOM	2748	ND2	ASN	В	407	-4.528	-13.140		1.00	26.46
		ATOM	2749	C	ASN	В	407	-1.820	-15.231		1.00	26.91
		ATOM	2750	0	ASN	В	407	-2.859	-15.870		1.00	28.68
		ATOM	2751	N	LEU	В	408	-1.059	-14.816		1.00	27.28
		ATOM	2752	CA	LEU	B	408	-1.387	-15.124	32.327	1.00	27.23
	45	ATOM	2753	CB	LEU	В	408	-2.247	-14.030	31.699	1.00	26.61
		ATOM	2754	CG	LEU	В	408	-2.815	-14.464	30.341	1.00	27.51
		ATOM	2755	CD1	LEU	В	408	-3.702	-15.692	30.546	1.00	28.75
		MOTA	2756	CD2	LEU	В	408	-3,598	-13.330	29.694	1.00	25.48
		ATOM	2757	С	LEU	В	408		-15.316		1.00	27.56
	50	ATOM	2758	0	LEU	В	408		-14.465		1.00	26.86
		MOTA	2759	N	LEU	В	409		-16.426		1.00	27.54
		ATOM	2760	CA	LEU	В	409		-16.774		1.00	31.96
		ATOM	2761	CB	LEU	В	409		-17.355		1.00	31.88
		ATOM	2762	CG	LEU	В	409		-17.703		1.00	37.72
	55	ATOM	2763			В	409					
	55			CD1	LEU			4.773			1.00	39.57
		ATOM	2764	CD2	LEU	В	409	5.066			1.00	41.72
		ATOM	2765	C	LEU	В	409		-17.805		1.00	31.53
		ATOM	2766	O .	LEU	В	409	0.921			1.00	32.67
	60	ATOM	2767	N	LEU	В	410	1.604			1.00	29.58
	60	ATOM	2768	CA	LEU	В	410	1.228			1.00	31.55
		ATOM	2769	CB	LEU	В	410	0.192			1.00	29.83
		ATOM	2770	CG	LEU	В	410	-1.047	-17.080	27.452	1.00	28.55
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	5	MOTA	2771	CD1	LEU	В	410		-16.135		1,00	26.92
		atom	2772	CD2	LEU	B	410	-1.979	-18.200	27.891	1.00	30.49
		ATOM	2773	Ç	LEU	В	410	2,397	-18.839	26.814	1.00	33,88
		MOTA	2774	0	LEU	В	410	3.427	-18.170	26.726	1.00	36.49
		ATOM	2775	N	ASP	В	411	2.238	-20.013	26.206	1.00	38.80
	10	ATOM	2776	CA	ASP	В	411	3.275	-20.562	25.336	1.00	38.39
		ATOM	2777	CB	ASP	В	411	3.657	-21.990	25.752	1.00	44.53
		ATOM	2778	CG	ASP	В	411		-22.943		1.00	44.90
		ATOM	2779	OD1	ASP	₿	411		-23.035		1.00	45.70
		ATOM		OD2	ASP	B	411		-23.603	-	1.00	50.54
	1.5		2780		•						1.00	38.57
	15	MOTA	2781	C	ASP	B	411		-20.551			
			2782	0	ASP	В	411		-20.341		1.00	36.48
		ATOM	2783	N	ARG	В	412		-20.777		1.00	36.85
		ATOM	2784	CA	ARG	В	412		-20.763		1.00	38.32
		MOŢA	2785	CB	arg	B	412	4.488	٠.		1.00	38.69
	20	MOTA	2786	CG	ARG	В	412	4.361	-22.314	19.799	1.00	40.05
		ATOM	2787	CD	ARG	В	412	5.644	-22.552	19.012	1.00	42.98
		ATOM	2788	NE	ARG	В	412	5.540	-22.099	17.626	1.00	40.95
		ATOM	2789	CZ	ARG	В	412	4.649	-22.559	16.753	1.00	41.11
		ATOM	2790	NH1	ARG	В	412	3.777	-23.490	17.115	1.00	44.01
100	25	ATOM	2791	NH2	ARG	В	412	4.632	-22.091		1.00	41.28
		ATOM	2792	C	ARG	В	412		-21.712		1.00	37.64
Ф		ATOM	2793	0	ARG	В	412	1.287			1.00	36.51
U	•			N	ASN	В	413	2.041	-22.834		1.00	35.32
Ü		ATOM	2794				413					36.68
ځد	20	ATOM	2795	CA	NSA	B			-23.798		1.00	
1	30	MOTA	2796	CB	ASN	В	413		-25.035		1.00	37.54
-		MOTA	2797	CG	ASN	В	413		-26.100		1.00	43.56
۱٠.		ATOM	2798	OD1	ASN	В	413		-26.022		1.00	46.11
ži:		MOTA	2799	ND2	asn	В	413		-27.104		1.00	47.04
IJ		ATOM	2800	c	ASN	B	413		-23.168		1.00	34.01
لَيْرًا.	35	MOTA	2801	0	ASN	B	413		-23.372		1.00	32.43
W		ATOM	2802	N	GLN	В	414	-0.447	-22.397	23.063	1.00	32.85
اب ن (بن		ATOM	2803	ÇA	GLN	В	414	-1.685	-21.741	23,449	1.00	31.91
Ü		ATOM	2804	CB	GLN	В	414	-1.558	-21.172	24,863	1.00	33.17
Ü		ATOM	2805	CG	GLN	В	414	-1.528	-22.242	25.948	1.00	32.31
Ð	40	ATOM	2806	CD	GLN	В	414	-1.293	-21.667	27.327	1.00	34.63
		ATOM	2807	OE1	GLN	В	414		-21.277		1.00	33.23
		ATOM	2808		GLN	В	414		-21.606		1.00	
		ATOM	2809		GLN	В	414	-2.052	-20.638	22.463	1.00	29.57
		ATOM		Ö	GLN	В	414		-20.204		1.00	31.32
	45	ATOM	2811	N	GLY	В	415		-20.190		1.00	30.96
	43	ATOM	2812	CA	GLY	В	415		-19.160		1.00	34.27
									-19.725		1.00	35.27
		ATOM	2813	C	GLY	B	415					
		ATOM	2814	0	GLY	В	415		-19.000		1.00	33.20
		MOTA	2815	N	LYS	В	416		-21.031		1.00	35.28
	50	MOTA	2816	CA	LYS	В	416		-21.707		1.00	38.26
		ATOM	2817	CB	LYS	В	416		-23.177		1.00	38.00
		MOTA	2818	CG	LYS	B	416		-23.407		1.00	40.05
		ATOM	2819	CD	LYS	В	416	-0.405	-24,668	18.369	1.00	44.10
		ATOM	2820	CE	LYS	В	416	0.306	-25.541	17.346	1.00	41.85
	55	MOTA	2821	NZ	LYS	В	416	1.286	-24.760	16.542	1.00	45.63
		ATOM	2822	C	LYS	В	416		-21.645		1.00	36.93
		ATOM	2823	ō	LYS	Ŗ	416		-21.790		1.00	38.36
		ATOM	2824	N	CYS	B	417		-21.430		1.00	37.10
		ATOM	2825	CA	CYS	В	417		-21,371		1.00	36.46
	60	ATOM	2826	CB	CYS	В	417		-21.226		1.00	39.01
		ATOM	2827	SG	CYS.	В	417		-22.710		1.00	43.81
		ATOM	2828	C	CYS	В	417	-0.899	-20.277	12.437	1.00	35.19

	5	ATOM	2829	0	CYS	B	417	-8.127	-20.296 19.489	1.00	33.92
		ATOM	2830	N	VAL	В	418	-6,195	-19.316 18.90	1.00	36.04
		ATOM	2831	CA	VAL	В	418	-6.838	-18.236 18.163	1.00	34.59
		ATOM	2832	CB	VAL	В	418	-6.525	-16.850 18.779	1.00	34.87
		ATOM	2833	CG1	VAL	В	418		-15.763 17.769		35.32
	10	ATOM	2834	CG2	VAL	B	418		-16.630 20.036		33.65
	10	ATOM	2835	C	VAL	В	418		-18.317 16.764		34.17
				o .	VAL	В	418		-18.323 16.61		32.73
		ATOM	2836						-18.388 15.740		33.44
		ATOM	2837	N	GLU	B	419				
		MOTA	2838	CA	GLU	В	419		-18.500 14.390		34.52
	15	MOTA	2839	CB	GLU	B	419		-18.722 13.380		36.21
		MOTA	2840	CG	GLU	B	419		-17.538 13.160		44.19
		ATOM	2841	CD	GLU	В	419		-17.723 11.946		48.47
		ATOM	2842	OE1	GLU	B	419		-18.605 11.119		51.04
		MOTA	2843	OE2	GLU	В	419	-10.484	-16.993 11.813		48.91
	20	MOTA	2844	C	GLU	В	419	-5.717	-17.289 13.99	7 1.00	32.89
		ATOM	2845	0	GLU	В	419	-6.156	-16.144 14.123	1.00	31.09
		MOTA	2846	N	GLY	В	420	-4.501	-17.562 13.539	1.00	32.84
		ATOM	2847	CA	GLY	В	420	-3.594	-16.506 13.12:	1.00	34.37
		ATOM	2848	С	ĢLY	В	420	-2.722	-15.955 14.240	1.00	35.30
, eta.	25	ATOM	2849	0	GLY	В	420		-15.246 13.975		35.94
		ATOM	2850	N	MET	В	421		-16.285 15.486		30.08
Ô		ATOM	2851	CA	MET	В	421		-15.780 16.629		29.22
ĮŲ.		ATOM	2852	CB	MET	В	421		-15.922 17.914		22.54
D		ATOM	2853	CG	MET	В	421		-15.270 19.124		23.82
145	30				MET	В	421		-13.494 18.872		28.40
100	30	ATOM	2854	SD							24.67
<u> </u>		ATOM	2855	CE	MET	В	421	-3.697			
1		ATOM	2856	C	MET	В	421		-16.416 16.823		29.67
3 1		ATOM	2857	0	MET	В	421		-15,751 17.269		29.76
		MOTA	2858	N	VAL	В	422		-17.694 16.484		30.63
W	35	MOTA	2859	CA	VAL	В	422		-18.338 16.675		29.90
لدا		ATOM	2860	CB	VAL	В	422		-19.835 16.27		35.74
		MOTA	2861	CG1	VAL	В	422	0.514			37.64
Ü		MOTA	2862	CG2	VAL	В	422		-20.555 16.89		31.68
j		ATOM	2863	C	VAL	В	422	1.669	-17.640 15.939		28.64
165	40	ATOM	2864	0	VAL	B	422	2.788	-17.571 16.442	1.00	26.15
		ATOM	2865	N	GĽU	В	423	1.402	-17.113 14.74	7 1.00	28.70
		MOTA	2866	CA	GLU	В	423	2.454	-16.435 13.99	7 1.00	31.34
		MOTA	2867	CB	GLU -	В	423	1.963	-16.050 12.596	1.00	36.21
		ATOM	2868	CG	GLU	В	423	0.502	-16.376 12.325	1.00	45.83
	45	ATOM	2869		GLU	В	423	0.250	-17.865 12.144	1.00	46.71
	-	ATOM	2870	QE1	GLU	В	423		-18.368 12.706		45.97
		ATOM	2871	OE2	GLU	В	423		-18.530 11.442		50.05
		ATOM	2872	C	GLU	В	423		-15.186 14.744		30.57
		ATOM	2873	0	GLU	В	423		-14.870 14.759		26.59
	50			Ŋ		В	424		-14.478 15.378		26.19
	30	ATOM	2874		ILE						
		ATOM	2875	CA	ILE	В	424		-13.279 16.113		26.23
		ATOM	2876	CB	ILE	В	424		-12.435 16.452		29.33
		MOTA	2877	CG2	ILE	В	424		-11.315 17.425		30.91
	<i>c c</i>	ATOM	2878	CG1	ILE	В	424		-11.817 15.160		29.09
	55	MOTA	2879	CD1	ILE	В	424		-11.514 15.187		30.51
		ATOM	2880	C	ILE	В	424		-13.673 17.370		24.22
		ATOM	2881	0	ILE	В	424		-13.037 17.725		21.05
		ATOM	2882	N	PHE	В	425	2.708	-14.746 18.023	1.00	21.71
		ATOM	2883	CA	PHE	В	425	3.370	-15.236 19.223	1.00	18.85
	60	ATOM	2884	CB	PHE	В	425	2.650	-16.479 19.768	1.00	22.98
		ATOM	2885	CG	PHE	В	425		-16.183 20.799		22.17
		ATOM	2886		PHE	В	425		-17.112 21.792		25.47
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	5	MOTA	2887		PHE	В	425		-15.001		1.00	26.30
		ATOM	2888	CE1	PHE	В	425	0.273	-16.871	22.724	1.00	24.33
		ATOM	2889	CE2	PHE	В	425	-0.174	-14.749	21.676	1.00	25.03
		MOTA	2890	CZ	PHE	В	425	-0.459	-15.684	22.663	1.00	26.44
		MOTA	2891	C	PHE	B	425	4.817	-15.610	18.885	1.00	20.00
	10	ATOM	2892	0	PHE	В	425	5.741	-15.292	19.636	1.00	21.15
		ATOM	2893	N	ASP	В	426	5.023	-16.281		1.00	19.87
		ATOM	2894	CA	ASP	В	426	6.378			1.00	23.20
		ATOM	2895	CB	ASP	В	426		-17.510		1.00	26.53
		ATOM	2896	CG	ASP	В	426		-18.965		1.00	34.28
	15	MOTA	2897	OD1	ASP	В	426		-19.467		1.00	35.24
	13	ATOM	2898	OD2	ASP	В	426		-19.600		1.00	31.49
		ATOM	2899	C	ASP	В	426		-15.489		1.00	21.84
		MOTA	2900		ASP	В	426		-15.526		1.00	21.55
	00	ATOM	2901		MET	В	427		-14.429		1.00	20.12
	20	ATOM	2902		MET	В	427		-13.234		1.00	21.02
		MOTA	2903	CB	MET	В	427		-12.228		1.00	18,53
		MOTA	2904	CG	MET	В	427		-12.559		1.00	27.92
		ATOM	2905	SD	MET	В	427	6.011	-11.341	13.024	1.00	32.84
		MOTA	2906	CE	MET	В	427	4.363	-11.532	13.581	1.00	33.63
	25	ATOM	2907	<i>"</i> C	MET	В	427	7.945	-12.616	17.732	1.00	17.42
Ō		ATOM	2908	0	MET	В	427	9.073	-12.180	17.950	1.00	22.09
เป็		ATOM	2909	N	LEU	В	428	6.968	-12.597	18.634	1.00	20.47
(X)		ATOM	2910	CA	LEU	В	428	7.157	-12.033	19.968	1.00	20.13
		ATOM	2911	CB	LEU	В	428	5.812	-11.964		1.00	17.58
,j	30	ATOM	2912	CG	LEU	В	428	4.852	-10.887		1.00	18.41
		ATOM	2913	CD1	LEU	В	428	3.443			1.00	11.95
las L		ATOM	2914	CD2	LEU	В	428	5.324		20.631	1.00	17.80
\.d		ATOM	2915	C	LEU	В	428	8.159			1.00	20.68
\$!		ATOM	2916	o	LEU	В	428	9.028			1.00	20.45
	35	ATOM	2917	N	LEU	В	429		-14.178		1.00	20.35
لدا	33	ATOM	2918		LEU	В	429		-15.082		1.00	19.82
ليرا				CA								
		ATOM	2919	CB	LEU	В	429		-16.532		1.00	23.13
ıΩ		ATOM	2920	CG	LEU	В	429		-16.839		1.00	21.85
·D	40	ATOM	2921	CD1	LEU	В	429	•	-18.123		1.00	25.39
	40	MOTA	2922	CD2	LEU	В	429	7.537			1.00	24.91
		MOTA	2923	C	LEU	В	429		-14.936		1.00	20.74
	•	ATOM	2924		LEU	В	429		-14.968			21.02
		MOTA	2925		ALA	В	430		-14.770		1.00	21.40
		ATOM	2926		ALA	В	430		-14.609		1.00	22.77
	45	ATOM	2927	CB	ALA	В	430	11,677	-14.596	17.432	1.00	21.11
		MOTA	2928	C	ALA	В	430	12.467	-13.315	19.440	1.00	22.40
		ATOM	2929	0	ALA	В	430	13.670	-13.277	19.713	1.00	20.62
		MOTA	2930	N	THR	В	431	11.670	-12.258	19.567	1.00	21.09
		ATOM	2931	CA	THR	В	431	12.183	-10.974	20.021	1.00	22.67
	50	ATOM	2932	CB	THR	В	431	11.128	-9.866	19.863	1.00	23.77
		ATOM	2933	OG1	THR	В	431	10.572	-9.936	18.547	1.00	23.84
		ATOM	2934	CG2	THR	В	431	11.762	-8.489		1.00	21.78
		ATOM	2935	C	THR	В	431		-11.037		1.00	21.98
		ATOM	2936		THR	В	431		-10.429		1.00	19.85
	55	ATOM	2937	N	SER	В	432		-11.773		1.00	24.24
		ATOM	2938	CA	SER	В	432		-11.773		1.00	26.96
		ATOM	2938		SER		432					
				CB		В			-12.661		1.00	28.00
		ATOM	2940	OG C	SER	В	432		-12.888		1.00	30.31
	60	ATOM	2941	C	SER	В	432	·	-12.660		1.00	27.67
	00	ATOM	2942	0	SER	В	432		-12.377		1.00	23.78
		ATOM	2943	N	SER	В	433		-13.628		1.00	29.27
		ATOM	2944	CA	SER	В	433	14.914	-14.421	22.928	1.00	31.96

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	5	ATOM	2945	CB	SER	В	433	14.790	-15.575	21.938	1,00	30.84
		MOTA	2946	OG	SER	В	433	14.761	-16.808	22.625	1,00	38.26
		ATOM	2947	C	SER	В	433	16.104	-13.550	22.548	1.00	31.47
		ATOM	2948	.0	SER	В	433	17.204			1.00	28.43
		ATOM	2949	N	ARG	B	434	15.878			1.00	29.55
	10	ATOM	2950	CA	ARG	В	434	16.926			1.00	29.40
	10											
		ATOM	2951	CB	ARG	В	434		-10.912		1.00	31.56
		MOTA	2952	CG	ARG	В	434	17.428		19.493	1.00	36.76
		ATOM	2953	CD	ARG	В	434	18.694	-10.502	18.919	1.00	37.76
		ATOM	2954	NE	ARG	В	434	19.654	-9.479	18.516	1.00	39.50
	15	ATOM	2955	CZ	ARG	В	434	20.965	-9.673	18,418	1.00	44.17
		ATOM	2956	NH1	ARG	В	434	21.492	-10.861	18.696	1.00	43.17
		ATOM	2957	NH2	ARG	В	434	21.750	•	18.048	1.00	43.05
		ATOM	2958	C	ARG	В	434		-10.827		1.00	29.15
						В			-10.612			28.82
	20	MOTA	2959	0	ARG		434				1.00	
	20	MOTA	2960	N	PHE	В	435		-10.297		1.00	24.88
		ATOM	2961	ÇA	PHE	В	435	16.600		24.186	1.00	25.74
		ATOM	2962	CB	PHE	В	435	15.278	-8.972	24.825	1.00	26.53
		MOTA	2963	CG	PHE	В	435	14.656	-7.758	24.183	1.00	30.94
		ATOM	2964	CD1	PHE	В	435	15.118	-7.271	22.966	1.00	32,65
, 200	25	ATOM	2965	CD2	PHE	B	435	13.592	-7.108	24.797	1.00	33.60
		ATOM	2966	CE1	PHE	В	435	14.529		22.372	1.00	36.84
O		ATOM	2967	CE2	PHE	В	435	12.997		24.208	1.00	34.96
IJ									-5.516			31.64
ΙĎ		ATOM	2968	CZ	PHE	В	435	13.468			1.00	
1-1	20	ATOM	2969	C	PHE	В	435		-10.184		1.00	25.39
الم:	30	ATOM	2970	0	PHE	В	435	18.414		25.764	1.00	22.59
ا ا		ATOM	2971	N	ARG	В	436	16.999	-11.405	25.528	1.00	24.58
1		ATOM	2972	CA	ARG	В	436	17.675	-12.253	26.503	1.00	30.25
		ATOM	2973	CB	ARG	В	436	16.898	-13.569	26.662	1.00	33.32
11 1 24		ATOM	2974	CG	ARG	В	436	17.232	-14.358	27.915	1.00	38.17
	35	ATOM	2975	CD	ARG	В	436		-15.367		1,00	37.27
IJ		ATOM	2976	NE	ARG	В	436		-16.085		1.00	43.92
لدا		ATOM	2977	CZ	ARG	B	436		-15.923		1.00	46.68
١Ď		ATOM	2978	NH1	ARG	В	436		-15.061		1.00	45.59
Ď	40	MOTA	2979	NH2	ARG	В	436		-16.620		1.00	46.25
123	40	ATOM	2980	C	ARG	В	436		-12.531		1.00	29.82
		ATOM	2981	0	ARG	В	436		-12.397		1.00	28.76
		ATOM	2982	N	AMET	В	437	19.269	-12.921	24.789	0.50	30.27
		ATOM	2983	N	BMET	В	437	19.252	-12.906	24.781	0.50	31.41
		ATOM	2984	CA	AMET	В	437	20.591	-13.212	24.253	0.50	31.98
	45	ATOM	2985	CA	BMEŢ	В	437	20.547	-13.206	24.183	0.50	33.77
		ATOM	2986	CB	AMET	В	437		-13.646		0.50	31.34
		ATOM	2987	CB	BMET	В	437		-13.595		0.50	35.88
											0.50	33.62
		MOTA	2988	CG	AMET	В	437		-15.127			
	60	ATOM	2989	CG	BMET	В	437		-13.594		0.50	40.47
	50	ATOM	2990	SD	AMET	В	437		-16.099		0.50	35.21
		ATOM	2991	SD	BMET	В	437	21.247	-13.937	20.115	0.50	46.79
		ATOM	2992	CE	AMET	В	437	22.155	-16.194	24.259	0.50	33.20
		ATOM	2993	CE	BMET	В	437	21.837	-15.632	19.976	0.50	43.22
		ATOM	2994	С	AMET	В	437		-11.993		0.50	33.33
	55	ATOM	2995	Ċ	BMET	В	437		-12.005		0.50	34.45
		ATOM	2996	0	AMET	В	437		-12.123		0.50	33.54
		ATOM	2997	0	BMET	В	437		-12.162		0.50	34.43
		MOTA	2998	N	MET	В	438		-10.809		1.00	32.07
	60	ATOM	2999	CA	MET	В	438	21.674	-9.560		1.00	32.48
	60	MOTA	3000	CB	MET	В	438	20.930			1.00	29.74
		MOTA	3001	CG	MET	В	438	21.161			1.00	36.73
		ATOM	3002	SD	MET	В	438	20.425	-6.849	21.462	1.00	38.21
								001				

•	5	ATOM	3003	CE	MET	В	438	21.693	-5.657	21.943	1.00	35.91
		MOTA	3004	С	MET	В	438	21.877	-9.122	25.738	1.00	28.81
		ATOM	3005	0	MET	В	438	22.686	-8.240	26.013	1.00	30.13
		ATOM	3006	N	ASN	В	439	21.120		26.646	1.00	27.14
		ATOM	3007	CA	ASN	В	439	21.199	-9.359		1.00	27.34
	10	ATOM	3008	CB	ASN	В	439	22.592	-9.524		1.00	34.85
	10	ATOM	3009	CG	ASN	В	439	22.624	-9.480		1.00	38.58
		•								•		
		MOTA	3010	OD1	ASN	В	439	21.584		30.724	1.00	42.99
		MOTA	3011	ND2	ASN	В	439	23.801	-9.260		1.00	41.14
		ATOM	3012	C	ASN	B	439	20.745	-7.903		1.00	26.24
	15	ATOM	3013	0	ASN	В	439	21.396	-7.106		1.00	19.76
		ATOM	3014	N	LEU	В	440	19.625	-7.564		1.00	24.90
•		ATOM	3015	CA	LEU	В	440	19.061	-6.214		1.00	25.04
		ATOM	3016	CB	LEU	В	440	17.761	-6.157	26.818	1.00	22.36
		ATOM	3017	CG	LEU	В	440	17.087	-4.786	26.740	1.00	26.33
	20	MOTA	3018	CD1	LEU	В	440	17.958	-3.843	25.923	1.00	28.33
		ATOM	3019	CD2	LEU	В	440	15.704	-4.914	26.111	1.00	24.81
		ATOM	3020	С	LEU	В	440	18.782	-5.785	29.074	1.00	24.71
		ATOM	3021	0	LEU	В	440	18.131	-6.504		1.00	26.96
		ATOM	3022	N	GLN	В	441	19.268	÷4.609		1.00	25.54
4800	25	ATOM	3023	CA	GLN	В	441	19.060	-4.099		1.00	25.82
12		ATOM	3024	CB	GLN	В	441	20.250	-3.231		1.00	30.41
Ō		ATOM	3025	CG	GLN	В	441	21.572	-3.956		1.00	30.50
IJ		ATOM	3026	CD	GLN	В	441	21.610	-5.028		1.00	
Œ												32.75
一	30	ATOM	3027	OE1	GLN	В	441	21.539	-4.772		1.00	36.52
'	30	ATOM	3028	NE2	GLN	В	441	21.703	-6.288		1.00	31.09
i 📥		ATOM	3029	C	GLN	В	441	17.789	-3.265		1.00	26.93
`•		MOTA	3030	0	GLN	В	441	17.303	-2.768		1.00	25.40
1i		MOTA	3031	N	GLY	В	442	17.266	-3.105		1.00	24.56
		ATOM	3032	CA	GLY	В	442	16.058	-2.327		1.00	22.82
لِيا	35	MOTA	3033	С	GLY	В	442	16.217	-0.873	31.885	1.00	24.19
Ū		MOTA	3034	0	GLY	В	442	15.290	-0.279	31.341	1.00	20.21
		MOTA	3035	N	GLU	В	443	17.387	-0.293	32.141	1.00	22.92
Ü		ATOM	3036	CA	GLU	В	443	17.635	1.102	31.778	1.00	23.33
		MOTA	3037	CB	GLU	В	443	18.960	1.590	32,378	1.00	24.26
Ü	40	ATOM	3038	CG	GLU	В	443	19.005	1,525	33.895	1.00	32.31
,		ATOM	3039	CD	GLU	В	443	19.701	0.270	34.402	1.00	37.68
		MOTA	3040	OE1	GLU	В	443	19.343	-0.841	33.948	1.00	35.23
		ATOM	3041	OE2	GLU	В	443	20.607		35.252	1.00	42.47
		ATOM	3042	C	GLU	В	443	17.662		30.262	1.00	23.08
	45	ATOM	3043	Ō	GLU	В	443	17.265		29.747	1.00	21.80
		ATOM	3044	N	GLU	В	444	18.128		29.552	1.00	21.16
		ATOM	3045	CA	GLU	В	444	18.182		28.093	1.00	22.60
		ATOM	3046	CB	GLU	В	444	19.046	-0.834		1.00	20.89
		ATOM	3047	CG	GLU	В	444	20.545	-0.617		1.00	
	50											23.24
	30	ATOM	3048	CD	GLU	В	444	21.340	-1.869		1.00	22.11
		ATOM	3049	OE1	GLU	B	444	20.817	-2.978		1.00	20.89
		ATOM	3050	OE2	GLU	В	444	22.488	-1.746		1.00	25.49
		ATOM	3051	С	GLU	В	444	16.758		27.552	1.00	21.06
	c -	ATOM	3052	0	GLU	В	444	16.377		26.597	1.00	23.73
	55	MOTA	3053	N	PHE	В	445	15.987	-0.730		1.00	19.01
		ATOM	3054	CA	PHE	В	445	14.600	-0.969		1.00	19.44
		ATOM	3055	CB	PHE	В	445	13.989	-2.067	28.675	1.00	18.12
		ATOM	3056	CG	PHE	В	445	12.483	-2.055	28.709	1.00	18.13
		ATOM	3057	CD1	PHE	В	445	11.746	-2.386	27.575	1.00	18.34
	60	ATOM	3058	CD2	PHE	В	445	11.802	-1.694	29.872	1.00	16.59
		ATOM	3059	CE1	PHE	В	445	10.346	-2.359		1.00	17.15
		ATOM	3060		PHE	В	445	10.406	-1.662		1.00	21.99
		=	-		- · 			22.20				-

	5	MOŢA	3061	CZ	PHE	В	445	9.674	-1.997 28.755	1.00	16.01
		ATOM	3062	e	PHE	В	445	13.758	0.304 27.888	1.00	15.87
		MOTA	3063	0	PHE	8	445	13.008	0.617 26.966	1.00	20.27
		ATOM	3064	N	VAL	В	446	13.872	1.044 28.986	1.00	15.90
		ATOM	3065	CA	VAL	В	446	13.074	2.269 29.112	1.00	16.78
	10	MOTA	3066	CB	VAL	В	446	13.165	2.895 30.531	1.00	18.32
	••	ATOM	3067	CG1	VAL	В	446	12.574	1.923 31.551	1.00	21.14
				-							
		MOTA	3068	CG2	VAL	В	446	14.598	3.251 30.879	1.00	21.04
		ATOM	3069	C	VAL	B	446	13.450	3.295 28.051	1.00	17.91
	1.0	MOTA	3070	0	VAL	В	446	12.596	4.028 27.561	1.00	19.37
	15	ATOM	3071	N	CYS	B	447	14.723	3.335 27.674	1.00	18.81
		MOTA	3072	CA	CYS	B	447	15.161	4.255 26.635	1.00	17.34
		ATOM	3073	CB	CYS	В	447	16.682	4.224 26.512	1,00	19.33
		ATOM	3074	SG	CYS	В	447	17.538	5.134 27.798	1.00	23.60
		MOTA	3075	С	CYS	В	447	14.537	3.826 25.301	1.00	18.09
	20	MOTA	3076	0	CYS	В	447	13.988	4.643 24.563	1,00	17.52
		ATOM	3077	N	LEU	В	448	14.623	2.533 25.006	1.00	15.60
		ATOM	3078	CA	LEU	В	448	14.072	1.994 23.767	1.00	16.67
		ATOM	3079	CB	LEU	В	448	14.328	0.490 23.684	1.00	14.82
		ATOM	3080	CG	LEU	В	448	15.730	0.009 23.301	1.00	23.57
1000	25	MOTA	3081	CD1	LEU	В	448		-1.522 23.169	1.00	21.61
	23	ATOM		CD2	LEU	В	448	16.167			18.92
Ø			3082						0.658 21.986	1.00	
IJ		ATOM	3083	C	LEU	В	448	12.573	2.249 23.652	1.00	15.98
Œ		ATOM	3084	0	LEU	В	448	12.078	2.633 22.590	1.00	18.91
4	~~	ATOM	3085	Ŋ	LYS	В	449	11.849	2.037 24.745	1.00	17.94
J	30	MOTA	3086	CA	LYS	В	449	10.405	2.232 24.733	1.00	16.66
4		MOTA	3087	CB	LYS	В	449	9.796	1.745 26.047	1.00	16.45
1		ATOM	3088	CG	LYS	В	449	8.285	1.861 26.115	1.00	16.12
πı		MOTA	3089	CD	LYS	В	449	7.730	0.952 27.193	1.00	19.09
		MOTA	3090	CE	LYS	В	449	8.201	1.380 28,580	1.00	. 17.04
IJ	35	ATOM	3091	NZ	LYS	В	449	7.159	1.088 29.593	1.00	17.25
لرا		MOTA	3092	C	LYS	В	449	10.058	3.696 24.486	1.00	18.78
1 111		ATOM	3093	0	LYS	В	449	9.103	3.996 23.769	1.00	14.84
1		ATOM	3094	N	SER	В	450	10.837	4.610 25.059	1.00	14.50
Û		MOTA	3095	CA	SER	В	450	10.591	6.032 24.849	1.00	17.11
ij	40	ATOM	3096	CB	SER	В	450	11.440	6.866 25.815	1.00	21.20
		ATOM	3097	OG	SER	В	450	10.859	6.868 27.108	1.00	30.66
		ATOM	3098		SER	В	450	10.933	6.418 23.405		17.84
		ATOM	3099		SER	B	450	10.279	7.292 22.821	1.00	18.82
		ATOM	3100	N	ILE	В	451	11,926	5.768 22.828	1.00	
	45										16.88
	43	ATOM	3101	CA	ILE	В	451	12.305	6.063 21.450	1.00	17.11
		ATOM	3102	CB	ILE	В	451	13.564	5.268 21.025	1.00	16.69
		ATOM	3103	CG2	ILE	B	451	13.724	5.298 19.505	1.00	19.31
		MOTA	3104	CG1	ILE	В	451	14.804	5.897 21.676	1.00	18.96
		MOTA	3105	CD1	ILE	В	451	16.083	5.130 21.431	1.00	18.98
	50	ATOM	3106	C	ILE	B	451	11.142	5.711 20.527	1.00	18.09
		MOTA	3107	0	ILE	В	451	10.820	6.464 19.608	1.00	17.07
		ATOM	3108	N	ILE	В	452	10.505	4.571 20.786	1:00	18.13
		ATOM	3109	CA	ILE	B	452	9.373	4,137 19.976	1.00	16.77
		ATOM	3110	CB	ILE	В	452	8.804	2.775 20.477	1.00	17.40
	55	ATOM	3111	CG2	ILE	В	452	7.464	2.496 19.831	1.00	14.33
		ATOM	3112	CG1	ILE	В	452	9.763	1.635 20.107	1.00	15.36
		ATOM	3113	CD1	ILE	В	452	9.449	0.323 20.805	1.00	17.76
		ATOM	3114	C	ILE	В	452	8.271	5.195 20.024	1.00	17.47
		MOTA	3115	0	ILE		452	7.733			
	60	ATOM	3115			В			5.586 18.992	1.00	16.50
	5 0			N	LEU	В	453	7.943	5.665 21.222	1.00	16.06
		ATOM	3117		LEU	В	453	6.903	6.680 21.374	1.00	17.17
		ATOM	3118	CB	LEU	В	453	6.736	7.061 22.850	1.00	16.23

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	5	MOTA	3119	CG	LEU	В	.453	5,792		23.163	1.00	
		MOTA	3120	CDI	LEU	B	453	4.388		22.704	1.00	16.94
		ATOM	3121	CD2	LEU	B	453	5.816		24.667	1.00	17.17
		ATOM	3122	C	LEU	B	453	7.198		20.566	1.00	19.33
		ATOM	3123	0	LEU	B	453	6.320	8.458	19.879	1.00	21.37
	10	ATOM	3124	N	LEU	B	454	8.434	8.428	20.636	1.00	17.68
		ATOM	3125	CA	LEŲ	В	454	8.789	9.653	19.933	1.00	20.93
		ATOM	3126	CB	LEU	В	454	9.959	10.347		1.00	24.33
		ATOM	3127	CG	LEU	В	454	9.735	10.699		1.00	26.16
		ATOM	3128	CD1	LEU	B	454	11.046	11.170		1.00	24.82
	15	ATOM	3129	CD2	LEU	В	454	8.658	11.777		1.00	23.79
	13				LEU		454	9.120		18.449	1.00	20.75
		MOTA	3130	C		B		8.941	10.431		1.00	21.33
		ATOM	3131	0	LEU	В	454					20.54
		MOTA	3132	N	ASN	В	455	9.566		18,042	1.00	
		MOTA	3133	CA	ASN	В	455	9.951		16.651	1.00	19.46
	20	MOTA	3134	CB	ASN	B	455	11.147		16.584	1.00	18.58
		MOTA	3135	CG	asn	В	455	11.576		15.161	1.00	17.64
		MOTA	3136	OD1	asn	В	455	12.106		14.496	1.00	18.40
		MOTA	31,37	ND2	asn	B	455	11.343		14.686	1.00	15.06
		ATOM	3138	C	ASN	В	455	8.925		15.655	1.00	22.77
	25	MOTA	3139	0	ASN	B	455	8.790	8.127	14.564	1.00	21.94
Ō		ATOM	3140	N	SER	В	456	8.224	6.514	16.023	1.00	25.90
Ü		ATOM	3141	CA	SER	В	456	7.260	5.873	15.135	1.00	24.76
Ö		ATOM	3142	СВ	SER	В	456	6.402	4.894	15.939	1.00	26.91
		MOTA	3143	OG	SER	В	456	7.212	3.818	16.390	1.00	26.24
j	30	ATOM	3144	С	SER	В	456	6.385	6.774	14.272	1.00	26.52
		ATOM	3145	Ö	SER	В	456	6.323		13.055	1.00	29.22
4		MOTA	3146	N	GLY	В	457	5.716		14.872	1.00	22.07
14		ATOM	3147	CA	GLY	В	457	4.879		14.076	1.00	25.19
31		ATOM	3148	C	GLY	В	457	5.510		13.765	1.00	28.59
	35	MOTA	3149	0	GLY	В	457	4.851	10.850		1.00	28.31
ليا	33				VAL	В	458	6.789	10.130		1.00	31.65
IJ		ATOM	3150	N				7.486	11.396		1.00	38.50
		ATOM	3151	CA	VAL	В	458					36.24
ā		ATOM	3152	CB	VAL	В	458	8.950	11.310		1.00	
	40	ATOM	3153	CG1	VAL	B	458	9.827	10.650		1.00	38.50
	40	MOTA	3154	CG2	VAL	В	458	9.463	12.699		1.00	39.84
		ATOM	3155	C	VAL	В	458	7.483	11.982		1.00	46.30
		MOTA	3156	0	VAL	В	458	7.567	13.201		1.00	47.67
		ATOM	3157	N	TYR	B	459	7.393	11.138		1.00	50.45
		MOTA	3158	CA	TYR	В	459	7.385	11.640		1.00	57.07
	45	ATOM	3159	CB	TYR	В	459	8.233	10.740		1.00	57.05
		ATOM	3160	CG	TYR	В	459	9.673	10.680	9.611	1.00	59.29
		MOTA	3161	CD1	TYR	В	459	10.284	11.786	10.203	1.00	60.93
		ATOM	3162	CE1	TYR	В	459	11,591	11.725	10.662	1.00	61.86
		ATOM	3163	CD2	TYR	В	459	10.414	9.510	9.486	1.00	59.46
	50	ATOM	3164	CE2	TYR	В	459	11.726	9.439	9.943	1.00	59.67
		ATOM	3165	CZ	TYR	В	459	12.305	10.548		1.00	60.84
		ATOM	3166	OH	TYR	В	459	13.593	10.477		1.00	61.39
		ATOM	3167	C	TYR	В	459	5.976	11.753	9.514	1.00	61.22
		ATOM	3168	0	TYR	В	459	5.629	12.750	8.874	1.00	62.89
	55	ATOM	3169	И	THR	В	460	5.166	10.730	9.768	1.00	65.15
					THR	В	460	3.783	10.702	9.309	1.00	67.76
		ATOM	3170	CA					9.283	9.309	1.00	68,02
		ATOM	3171	CB	THR	В	460	3.178		8.836	1.00	
		ATOM	3172	OG1	THR	В	460	1.890	9.235			67.03
	60	ATOM	3173	CG2	THR	В	460	3.040		10.938	1.00	67.31
	60	ATOM	3174	C	THR	В	460	2.945	11.700		1.00	70.14
		ATOM	3175	0 .	THR	В	460	1.715	11.641		1.00	72.35
		ATOM	3176	N	PHE	В	461	3.625	12.620	TO. 788	1.00	72.64

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	5	MOTA	3177	CA	PHE	В	461	2.969	13.637 11.607	1.00	75.05
		ATOM	3178	CB	PHE	В	461	3.977	14.720 12.012	1.00	75.47
		MOTA	3179	CG	PHE	В	461	4.235	14.789 13.492	1.00	74.32
		ATOM	3180	CD1	PHE	В	461	3.200	14.609 14.404	1.00	73.98
		MOTA	3181	CD2	PHE	В	461	5.517	15.025 13.975	1.00	75.22
	10										
	10	ATOM	3182	CE1	PHE	B	461	3.438	14.662 15.775	1.00	74.02
		MOTA	3183	CE2	PHE	В	461	5.765	15.080 15.344	1.00	74.50
		MOTA	3184	CZ	PHE	В	461	4.722	14.897 16.245	1.00	74.10
		MOTA	3185	ę	PHE	В	461	1.787	14.286 10.896	1.00	76.78
•		ATOM	3186	0	PHE	В	461	1.775	14.279 9.645	1.00	77.08
	15	ATOM	3187	CB	GLU	В	470	7.873	23.789 14.718	1,00	80.19
	13						470	8.958			
		MOTA	3188	C	GLU	В			21.731 15.650	1.00	79.30
		ATOM	3189	0	GLU	В	470	9.887	21.518 16.432	1.00	78.21
		ATOM	3190	N	GLU	B	470	9.096	22.235 13.227	1,00	80.22
		MOTA	3191	CA	GLU	B	470	9.060	22,830 14.595	1.00	80.03
	20	MOTA	3192	N	GLU	В	471	7.823	21.037 15.665	1.00	78.31
		ATOM	3193	CA	GLU	В	471	7.596	19.956 16.617	1,00	75.83
		ATOM	3194	CB	GLU	В	471	6.118	19.543 16.604	1.00	76.70
		ATOM	3195	CG	GLU	В	471	5.742	18.544 15.516	1.00	78.42
			3196		GLU			5.062			79.69
	95	ATOM		CD		В	471		19.198 14.327	1.00	
	25	ATOM	3197	OE1	GLU	B	471	3.829	19.398 14.378	1.00	80.26
۱Ď		MOTA	3198	OE2	GLU	В	471	5.763	19.511 13.340	1.00	80.72
īŪ		MOTA	3199	С	GLU	В	471	8.487	18.756 16.292	1.00	73.13
Ü		MOTA	3200	0	GLU	В	471	8.897	18.021 17.189	1.00	73.86
		ATOM	3201	N	LYS	В	472	8.785	18.565 15.009	1.00	69.65
\\	30	ATOM	3202	CA	LYS	В	472	9.639	17.461 14.581	1.00	64.40
		ATOM	3203	СВ	LYS	В	472	9.578	17.293 13.060	1.00	63.78
ade de		ATOM	3204	CG	LYS	В	472	8.343	16.552 12.566	1.00	64.49
1				CD		В	472	8.544		1.00	63.81
đí		MOTA	3205		LYS				16.002 11.161		
	2.5	ATOM	3206	CE	LYS	В	472	7.379	16.368 10.249	1.00	.64.90
i.J	35	ATOM	3207	NZ	LYS	B	472	6.475	15.212 9.990	1.00	63.97
لَيْا		MOTA	3208	C	LŸS	В	472	11.071	17.749 15.014	1.00	61.03
144 144		ATOM	3209	0	LYS	В	472	11.848	16.833 15.287	1.00	60.28
		ATOM	3210	N	ASP	В	473	11.413	19.033 15.076	1.00	56.84
ı,		ATOM	3211	CA	ASP	В	473	12.745	19.451 15.488	1.00	51.69
١Ď	40	ATOM	3212	СВ	ASP	В	473	12.923	20.940 15.242	1.00	50.36
	. •	ATOM	3213	C	ASP	В	473	12.923	19.138 16.970	1.00	49.18
		MOTA	3214	0	ASP	В	473	13.959	18.619 17.385	1.00	46.85
	•	MOTA		N	HIS	В	474	11,898	19.449 17.758	1.00	45.35
		ATOM		CA	HIS	В	474	11.923	19.203 19.196	1.00	43.65
	45	ATOM	3217	CB	HIS	В	474	10.652	19.761 19.847	1.00	43,70
		ATOM	3218	CG	HIS	В	474	10.458	19.326 21.267	1.00	43.86
		ATOM	3219	CD2	HIS	В	474	11.095	19.688 22.406	1.00	44.12
		ATOM	3220	ND1	HIS	В	474	9.510	18.395 21.638	1.00	46.60
		ATOM	3221	CE1	HIS	В	474	9.572	18.202 22.943	1.00	45.29
	50										
	30	ATOM	3222	NE2	HIS	В	474	10.526	18.975 23.434	1.00	47.96
		ATOM	3223	Ċ	HIS	В	474	12.030	17.707 19.471	1.00	42.38
		ATOM	3224	O	HIS	B	474	12.834	17.273 20.298	1.00	42.83
		MOTA	3225	N	ILE	В	475	11.214	16.923 18.773	1.00	38.86
		ATOM	3226	CA	ILE	В	475	11.222	15.475 18.943	1.00	36.53
	55	ATOM	3227	СВ	ILE	В	475	10.105	14.822 18.110	1.00	36.56
		ATOM	3228	CG2	ILE	В	475	10.390	13.335 17.911	1.00	36.17
		ATOM	3229	CG1	ILE	В	475	8.770	14.998 18.832	1.00	35.81
		ATOM		CD1	ILE	В	475	7.598	14.410 18.094	1.00	41.77
	60	ATOM	3231	C	ILE	В	475	12.575	14.898 18.532	1.00	33.72
	60	ATOM	3232	0	ILE	В	475	13.112	14.023 19.207	1.00	31.50
		ATOM	3233		HIS	В	476	13.121	15.375 17.429	1.00	33.65
		MOTA	3234	CA	HIS	В	476	14.421	14.886 16.992	1.00	33.31
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	5	MOTA	3235	CB	HIS	В	476	14.782	15.481 15.637	1.00	37.30
		MOTA	3236	CG	HIS	В	476	14.132	14.781 14.486	1.00	43.64
		ATOM	3237	CD2	HIS	В	476	13.723	13.498 14.342	1.00	45.25
		atom	3238	ND1	HIS	В	476	13.816	15.419 13.306	1.00	48.37
		MOTA	3239	CE1	HIS	В	476	13.238	14.560 12.484	1.00	48.87
	10	ATOM	3240	NE2	HIS	В	476	13.170	13.387 13.089	1.00	48.11
	• •	ATOM	3241	C	HIS	В	476	15.506	15.213 18.022	1.00	31.20
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		MOTA	3242	0	HIS	В	476	16.442	14.436 18.208	1.00	27.25
		ATOM	3243	N	ARG	В	477	15.387	16.365 18.684	1.00	30.64
		ATOM	3244	CA	ARG	В	477	16.361	16.754 19.703	1.00	30.09
	15	ATOM	3245	СВ	ARG	В	477	16.144	18.214 20.121	1.00	33.46
	13										
		ATOM	3246	CG	ARG	В	477	16.322	19.212 18.982	1.00	40.74
		MOTA	3247	CD	ARG	В	477	16.274	20.649 19.479	1.00	45.91
		ATOM	3248	NE	ARG	В	477	17.514	21.020 20.155	1.00	51.37
		MOTA	3249	CZ	ARG	В	477	18,375	21.927 19.702	1.00	53.68
	20	ATOM	3250	NH1	ARG	В	477	18.140	22.567 18.560	1.00	53.04
	20				•						
		ATOM	3251	NH2	ARG	В	477	19.480	22.185 20.389	1.00	51.79
		MOTA	3252	C	ARG	В	477	16.232	15.835 20.925	1.00	26.97
		MOTA	3253	0	ARG	В	477	17.233	15.387 21.486	1.00	27.34
		ATOM	3254	N	VAL	В	478	14.999	15.558 21.338	1.00	23.70
	25	ATOM	3255	CA	VAL	В	478	14.780	14.685 22.482	1.00	24.79
	45									•	
·Ø		MOTA	3256	CB	VAL	В	478	13.286	14.613 22.861	1.00	24.83
IŪ		ATOM	3257	CG1	VAL	В	478	13.088	13.646 24.022	1.00	26.23
Ď		ATOM	3258	CG2	VAL	В	478	12.781	15.996 23.243	1.00	28.26
		ATOM	3259	С	VAL	В	478	15.284	13.294 22.112	1.00	26.10
<u> </u>	30	ATOM	3260	Ö	VAL	В	478	15.919	12.613 22.927	1.00	24.28
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		ATOM	3261	N	LEU	В	479	15.021	12.889 20.870	1.00	22.92
i.j		MOTA	3262	CA	LEU	В	479	15.456	11.584 20.379	1.00	21.96
		ATOM	3263	CB	LEU	В	479	14.992	11.372 18.930	1.00	22.63
ii :mm		ATOM	3264	CG	LEU	В	479	13.575	10.798 18.756	1.00	20.82
	35	ATOM	3265	CD1	LEU	В	479	13.231	10.689 17.274	1.00	22.53
ليا	55										
لبا		ATOM	3266	CD2	LEU	В	479	13.495	9.440 19.420	1.00	23.08
-		ATOM	3267	C	LEU	В	479	16.975	11.471 20.453	1.00	21.90
		ATOM	3268	0	LEU	В	479	17.506	10.416 20.778	1.00	23.11
		ATOM	3269	N	ASP	В	480	17.675	12.560 20.143	1.00	23.65
· D	40	ATOM	3270	CA	ASP	В	480	19.141	12.566 20.198	1.00	24.29
		ATOM	3271	CB	ASP	В	480	19.692	13.889 19.649	1.00	26.88
		ATOM	3272	CG	ASP	В	480	19.773	13.914 18.129	1.00	33.32
		ATOM	3273	OD1	ASP	В	480	19.857	12.836 17.499	1.00	35.44
	•	MOTA	3274	OD2	ASP	В	480	19.757	15.022 17.563	1.00	32.44
	45	ATOM	3275	C	ASP	В	480	19.590	12.406 21.656	1.00	24.13
									11.697 21.956		
		ATOM	3276	0	ASP	В	480	20.551		1.00	24.88
		MOTA	3277	N	LYS	В	481	18.887	13.077 22.560	1.00	25.18
		ATOM	3278	CA	LYS	В	481	19.213	13.010 23.980	1.00	26.78
		ATOM	3279	CB	LYS	В	481	18.262	13.898 24.785	1.00	31.37
	.50	ATOM	3280	CG	LYS	В	481	18.962	14.788 25.804	1.00	43.84
	.50										
		ATOM	3281	CD	LYS	В	481	18.780	14.260 27.219	1.00	46.08
		MOTA	3282	CE	LYS	В	481	20.120	13.928 27.865	1.00	50.99
		ATOM	3283	NZ	LYS	В	481	21.177	14.922 27.511	1.00	54.35
		ATOM	3284	С	LYS	В	481	19.124	11.575 24.495	1.00	26.87
	55	ATOM	3285	ō	LYS	В	481	19.951	11.145 25.305	1.00	20.37
	"										
		MOTA	3286	N .	ILE	В	482	18.124	10.830 24.027	1.00	23.26
		MOTA	3287	CA	ILE	В	482	17.981	9,452 24,472	1.00	21.07
		MOTA	3288	CB	ILE	В	482	16.655	8.828 24.015	1.00	19.80
		ATOM	3289	CG2	ILE	В	482	16,580	7.370 24.491	1.00	17.40
	60	ATOM	3290	CG1	ILE	В	482	15.479	9.606 24.602	1.00	17.16
		MOTA	3291	CD1	ILE	В	482	14.136	9.209 23.991	1.00	19.43
		MOTA	3292	C	ILE	В	482	19.135	8.616 23.947	1.00	20.21
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	5	ATOM	3293	0	ILE	₿	482	19.621	7.722 24.640	1.00	25.55
		ATOM	3294	N	THR	В	483	19.569	8.896 22.722	1.00	21.89
		MOTA	3295	CA	THR	В	483	20.701	8.176 22.141	1.00	22.67
		MOTA	3296	CB	THR	В	483	21.030	8.662 20.695	1.00	23.34
		ATOM	3297	OG1	THR	В	483	19.890	8.475 19.851	1.00	27.33
	10	ATOM	3298	CG2	THR	В	483	22.203	7.882 20.116	1.00	24.46
		ATOM	3299	C	THR	В	483	21.913	8.441 23.035	1.00	23.51
		ATOM	3300	Ö	THR	В	483	22.650	7.520 23.381	1.00	27.01
		ATOM	3301	N	ASP	B	484	22.030	9.703 23.404	1.00	22.88
		ATOM	3301	CA	ASP	В	484	•			
	15							23.237	10.058 24.276	1.00	24.93
	13	ATOM	3303	CB	ASP	В	484	23.201	11.546 24.652	1.00	28.69
		ATOM	3304	CG	ASP	B	484	23.504	12.464 23.485	1.00	29.19
		ATOM	3305	OD1	ASP	В	484	23.982	11.984 22.437	1.00	29.63
		ATOM	3306	OD2	ASP	В	484	23.256	13.681 23.627	1.00	32.02
		ATOM	3307	C	ASP	В	484	23.125	9.249 25.567	1,00	24.40
	20	ATOM	3308	0	ASP	В	484	24.125	8.780 26.103	1.00	25.60
		MOTA	3309	N	THR	В	485	21.899	9.096 26,066	1.00	20.16
		MOTA	3310	CA	THR	В	485	21.670	8.365 27.307	1.00	22.28
		ATOM	3311	CB	THR	B	485	20.203	8.521 27.763	1.00	24.64
		ATOM	3312	OG1	THR	В	485	19.878	9.914 27.830	1.00	24.28
	25	ATOM	3313	CG2	THR	В	485	19.993	7.896 29.133	1.00	23.32
Ö		MOTA	3314	С	THR	В	485	22.017	6.881 27.188	1.00	22.13
iV		ATOM	3315	0	THR	В	485	22.574	6.284 28.115	1.00	23.30
		ATOM	3316	N	LEU	В	486	21.686	6.290 26.045	1.00	23.08
Ü		ATOM	3317	CA	LEU	В	486	21.969	4.881 25.792	1.00	22.26
-	30	ATOM	3318	CB	LEU	В	486	21.346	4.452 24.464	1.00	20.93
'n.	50	ATOM	3319	CG	LEU	В	486	19.878	4.031 24.533	1.00	24.92
-		ATOM	3320	CD1	LEU	В	486	19.295	4.003 23.123	1.00	21.96
أيميا		ATOM	3321	CD2	LEU	B	486	19.763	2.658 25.196	1.00	23.90
9!			3322	C	LEU	В	486	23.477	4.634 25.742	1.00	24.12
	35	MOTA									
لدا	33	MOTA	3323	0	LEU	В	486	23.984	3.681 26.334	1.00	24.02
IJ		ATOM	3324	N	ILE	В	487	24.191	5.490 25.022	1.00	24.53
		MOTA	3325	CA	ILE	В	487	25.640	5.345 24.913	1.00	25.16
		ATOM	3326	СВ	ILE	В	487	26.207	6.379 23.899	1.00	25.57
Ē	40	ATOM	3327	CG2	ILE	В	487	27.725	6.522 24.051	1.00	24.54
	40	ATOM	3328	CG1	ILE	В	487	25.857	5.936 22.470	1.00	25.63
		MOTA	3329	CD1	ILE	В	487	26.538	4.646 22.021	1.00	25.68
		ATOM	3330	С	ILE	В	487	26.275	5.518 26.307	1.00	23.60
		MOTA		0	ILE	В	487	27.200	4.794 26.671	1.00	23.65
		MOTA	3332	N	HIS	В	488	25.755	6.456 27.081	1.00	21.75
	45	ATOM	3333	CA	HIS	В	488	26.251	6.720 28.431	1.00	26.07
		ATOM	3334	CB	HIS	В	488	25.450	7.871 29.041	1.00	26.99
		ATOM	3335	CG	HIS	В	488	25,818	8.196 30.455	1.00	33.06
		ATOM	3336	CD2	HIS	В	488	25.245	7.838 31.629	1.00	32.79
		ATOM	3337	ND1	HIS	В	488	26.869	9.025 30.779	1.00	36.45
	50	ATOM	3338	CE1	HIS	В	488	26.927	9.164 32.091	1.00	35.93
		MOTA	3339	NE2	HIS	В	488	25.953	8.453 32.630	1.00	33.88
		ATOM	3340	C	HIS	В	488	26.123	5.463 29.292	1.00	26.85
		ATOM	3341	0	HIS	В	488	27.071	5.054 29.967	1.00	28.52
		ATOM	3342	N	LEU	В	489	24.949	4.850 29.266	1.00	28.00
	55	ATOM	3343	CA	LEU	В	489	24.715	3.642 30.040	1.00	25.94
	- -	ATOM	3344	CB	LEU	В	489	23.298	3.127 29.788	1.00	27.07
		ATOM	3345	CG	LEU	В	489	23.298	3.909 30.445	1.00	31.71
		ATOM	3346	CD1	LEU		489	20.827	3.516 29.799	1.00	28.08
						В			3.616 31.949		
	60	ATOM	3347	CD2	LEU	В	489	22.143		1.00	29.30
	50	ATOM	3348	C	LEU	В	489	25.718	2.561 29.642	1.00	26.84
		ATOM	3349	0	LEU	В	489	26.241	1.832 30.486	1.00	20.86
		ATOM	3350	N	MET	B	490	25.978	2.453 28.345	1.00	23.82

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	5	ATOM	3351	CA	MET	В	490	26.900	1.438 27.857	1.00	26.38
		MOTA	3352	CB	MET	В	490	26.775	1.306 26.336	1.00	27.29
		ATOM	3353	CG	MET	В	490	25.418	0.776 25.895	1.00	21.68
		ATOM	3354	SD	MET	В	490	25.208	0.739 24.106	1.00	26.30
				CE		В			0.412 24.022	1.00	
	10	MOTA	3355		MET	-	490	23.461			19.66
	10	ATOM	3356	C	MET	B	490	28.341	1.743 28.247	1.00	26.42
		ATOM	3357	0	MET	B	490	29.109	0.833 28.574	1.00	24.76
		ATOM	3358	N	ALA	В	491	28.713	3.018 28.207	1.00	26.67
		ATOM	3359	CA	ALA	В	491	30.074	3.394 28.577	1.00	30.73
		ATOM	3360	CB	ALA	B	491	30.299	4.882 28.335	1.00	26.66
	15	ATOM	3361	c	ALA	В	491	30.250	3.053 30.056	1.00	32.08
	13										
		MOTA	3362	0	ALA	В	491	31.194	2.361 30.438	1.00	34.66
		MOTA	3363	N	LYS	В	492	29.316	3.523 30.878	1.00	33.17
		MOTA	3364	CA	LYS	В	492	29.354	3.267 32.309	1.00	32.82
		MOTA	3365	CB	LYS	В	492	28.110	3.849 32.976	1.00	36.38
	20	ATOM	3366	CG	LYS	В	492	28.412	4.797 34.123	1.00	38.68
		ATOM	3367	CD	LYS	В	492	27.242	4.887 35.084	1.00	41,41
		ATOM	3368	CE	LYS	В	492	26.299	6.013 34.698	1.00	47.57
		ATOM	3369	NZ	LYS	В	492	26.395	7.184 35.618	1.00	50.76
	26	ATOM	3370	C	LYS	В	492	29.453	1.771 32.619	1.00	34.08
	25	ATOM	3371	0	LYS	В	492	30.090	1.382 33.593	1.00	34.31
Ď		MOTA	3372	N	ALA	В	493	28.835	0.935 31.788	1.00	32.03
เบิ		MOTA	3373	CA	ALA	В	493	28.867	-0.510 31.998	1.00	30.70
ΙĎ		ATOM	3374	CB	ALA	В	493	27.719	-1.181 31.245	1.00	28.80
		ATOM	3375	С	ALA	В	493	30.201	-1.156 31.606	1.00	33.75
	30	ATOM	3376	0	ALA	В	493	30.402	-2.356 31.819	1.00	30.53
اله.	-	ATOM	3377	N	GLY	В	494	31.102	-0.372 31.020	1.00	33.50
<u>-</u>		ATOM	3378	CA	GLY	В	494				
أموا								32.405	-0.903 30.656	1.00	33,71
Ei		MOTA	3379	C	GLY	В	494	32.639	-1.360 29.230	1.00	34.40
		MOTA	3380	0	GLY	В	494	33.663	-1.989 28.950	1.00	33.13
IJ	35	MOTA	3381	N	LEU	В	495	31.712	-1.056 28.326	1.00	31.76
		ATOM	3382	CA	LEU	В	495	31.859	-1.452 26.925	1.00	30.57
لدا		ATOM	3383	CB	LEU	В	495	30.494	-1.415 26.216	1.00	30.67
		ATOM	3384	CG	LEU	В	495	29.610	-2.675 26.256	1.00	29,59
ı		ATOM	3385	CD1	LEU	В	495	29.315	-3.058 27.700	1.00	26.60
·O	40	ATOM	3386	CD2	LEU	В	495	28.307	-2.416 25.501	1.00	27.52
	••	ATOM	3387	C	LEU	В	495	32.829	-0.515 26.202	1.00	
											30.53
		MOTA	3388	0	LEU	В	495	32.855	0.688 26.468	1.00	28.14
		ATOM	3389	N	THR	В	496	33.628	-1.064 25.291	1.00	28.03
		ATOM	3390	CA	THR	В	496	34.567	-0.243 24.529	1.00	29.06
	45	MOTA	3391	CB	THR	В	496	35.511	-1.095 23.665	1.00	29.40
		ATOM	3392	OG1	THR	В	496	34.753	-1.758 22.641	1.00	30.29
		ATOM	3393	CG2	THR	В	496	36.228	-2.122 24.515	1.00	28.12
		ATOM	3394	C	THR	В	496	33.770	0.652 23.590	1.00	30.12
		ATOM	3395	Ö	THR	B·	496	32.580	0.433 23.380	1.00	29.74
	50										
	30	ATOM	3396	N ~-	LEU	В	497	34.430	1.654 23.018	1.00	30.44
		ATOM	3397	CA	LEU	В	497	33.762	2.567 22.104	1.00	28.54
		ATOM	3398	CB	LEU	В	497	34.768	3.564 21.529	1.00	31.14
		MOTA	3399	CG	LEU	В	497	35.209	4.719 22.434	1.00	33.58
		ATOM	3400	CD1	LEU	В	497	36.120	5.659 21.652	1.00	31.42
	55	ATOM	3401	CD2	LEU	В	497	33.992	5.469 22.942	1.00	35.08
		ATOM	3402	C	LEU	В	497	33.095	1.800 20,967	1.00	27.35
		ATOM	3403	0	LEU	В	497	31.967	2.105 20.574	1.00	24.03
		ATOM	3404	N	GLN	В	498	33.798	0.797 20.447	1.00	26.17
	60	ATOM	3405	CA	GLN	В	498	33.289	-0.009 19.348	1.00	26.32
	60	ATOM	3406	CB	GLN	В	498	34.411	-0.876 18.771	1.00	27.25
		ATOM	3407	CG	GLN	В	498	33.967	-1.796 17.645	1.00	32.67
		ATOM	3408	CD	GLN	В	498	34.965	-2.912 17.374	1.00	38.39

	5	MOTA	3409	OE1	GLN	В	498	35.737	-3.298 18.25	4 1.00	36.78
		MOTA	3410	NE2	GLN	В	498	34.953	-3.437 16.15		33.18
		MOTA	3411	C	GLN	В	498	32.112	-0.888 19.77	4 1.00	25.70
		ATOM	3412	0	GLN	В	498	31.167	-1.076 19.00	9 1.00	25.35
		ATOM	3413	N	GLN	В	499	32.173	-1.434 20.98	6 1.00	24.01
	10	ATOM	3414	CA	GLN	В	499	31.093	-2.281 21.48	7 1.00	25.34
		ATOM	3415	CB	GLN	В	499	31.501	-2.935 22.81	5 1.00	28.38
		ATOM	3416	CG	GLN	В	499	32.537	-4.056 22.66	9 1.00	29.13
		MOTA	3417	CĐ	GLN	В	499	32.913	-4.687 23.99	5 1.00	30.80
		ATOM	3418	OE1	GLN	В	499	33.306	-3.997 24.93		33.62
	15	ATOM	3419	NE2	GLN	B	499	32.797	-6.004 24.07		30.64
		ATOM	3420	C	GLN	В	499	29.842	-1.430 21.69		25.70
		ATOM	3421	ō	GLN	В	499	28.715	-1.910 21.55		26.22
		ATOM	3422	N	GLN	В	500	30.062	-0.160 22.02		23.09
		ATOM	3423	CA	GLN	В	500	28.989	0.793 22.25		23.53
	20	ATOM	3424	CB	GLN	B	500	29.564	2.107 22.78		26.17
	20	ATOM	3425	CG	GLN	B	500	29.958	2.073 24.25		27.71
		ATOM	3426	CD	GLN	B	500	30.812	3.262 24.64		29.32
		ATOM	3427	OE1	GLN	В	500	30.559	4.386 24.20		28.48
		ATOM	3428	NE2	GLN	В	500	31.831	3.021 25.46		25.07
	25	ATOM	3429	C	GLN	В	500	28.151	1.074 21.01		24,24
(3	2,5	ATOM	3430	0	GLN	B	500	26.923	0.949 21.05		24.40
·D		ATOM	3431	N	HIS	В	501	28.790	1.465 19.91		23.08
IU		ATOM	3432	CA	HIS	В	501	28.004	1.739 18.72		26.92
Ü		ATOM	3433	CB	HIS	В	501	28.791	2.577 17.69		32.00
4	30	ATOM	3434	CG	HIS	В	501	29.988	1.896 17.10		36.97
`~	30	ATOM	3435	CD2	HIS	В	501	30.122	0.710 16.46		40.32
a.		ATOM	3436	ND1	HIS	В	501	31.224	2.505 17.04		37.88
14		ATOM	3437	CE1	HIS	В	501	32.066	1.724 16.38		38.81
11		ATOM	3438	NE2	HIS	В	501	31.422	0.628 16.02		41.21
	35	ATOM	3439	C	HIS	В	501	27.451	0.457 18.12		25.91
لدا	33	ATOM	3440	0	HIS	В	501	26.369	0.457 17.53		20.13
ليا				N	GLN	В	502	28.165	-0.648 18.31		24.94
		ATOM ATOM	3441	CA	GLN	В	502 502	27.698	-1.926 17.80		21.88
ıΩ			3442			В	502 502	28.785	-2.996 17.95		24.62
O	40	ATOM	3443 3444	CB	GLN	В		29,796	-3.001 16.79		26.55
	40	MOTA		CG	GLN GLN	В	502 502	30.843	-4.109 16.90		27.06
		ATOM	3445 3446	CD		В		30.716	-5.033 17.70		28.49
		MOTA			GLN		502		-4.018 16.07		
		ATOM	3447	NE2	GLN	B	502 502	31.882	-2.341 18.55		21.90 22.39
	15	MOTA	3448	C	GLN	В	502	26.428			
	45	MOTA	3449	0	GLN	В	502	25.464	-2.807 17.94		22.24
		ATOM	3450	N	ARG	B	503	26.421	-2.159 19.87		20.54
		ATOM	3451	CA	ARG	В	503	25.259	-2.523 20.67		22.04
		ATOM	3452	CB	ARG	В	503	25.602	-2.519 22.18		22.51
	<i>7</i> .0	MOTA	3453	CG	ARG	В	503	24.451	-3.022 23.07		23.34
	50	MOTA	3454	CD	ARG	В	503	24.853	-3.110 24.55		22.18
		ATOM	3455	NE	ARG	В	503	23.743	-3.546 25.39		19.62
		ATOM	3456	CZ	ARG	В	503	23.329	-4.807 25.49		19.88
		ATOM	3457	NH1	ARG	В	503	23.933	-5.765 24.80		16.40
		MOTA	3458	NH2	ARG	В	503	22.303	-5.110 26.28		19.71
	55	MOTA	3459	С	ARG	В	503	24.102	-1.558 20.40		19.05
		MOTA		0	ARG	В	503	22.945	-1.968 20.35		18.87
		MOTA	3461	N	LEU	B	504	24.414	-0.276 20.23		20.19
		ATOM		CA	LEU	В	504	23.375	0.714 19.96		19.33
		MOTA	3463	CB	LEU	B	504	23.972	2.117 19.85		16.25
	60	ATOM	3464	CG	LEU	В	504	22.983	3.173 19.34		20.35
		ATOM	3465	CD1	LEU	В	504	21.930	3.449 20,42		17.97
		ATOM	3466	CD2	LEU	В	504	23.729	4.448 18.95	5 1.00	20.86
								200			

	5	MOTA	3467	C	LEU	В	504	22.659	0.357 18.667	1.00	21.22
		MOTA	3468	0	LEU	В	504	21.433	0.478 18.566	1.00	19.28
		MOTA	3469	N	ALA	B	505	23.428	-0.085 17.676	1.00	18.55
		ATOM	3470	CA	ALA	В	505	22.859	-0.473 16.396	1.00	18.20
		MOTA	3471	CB	ALA	В	505	23.973	-0.745 15.382	1.00	18.45
	10	MOTA	3472	C	ALA	B	505	21.986	-1.716 16.562	1.00	19.54
		MOTA	3473	0	ALA	В	505	20.871	-1.774 16.041	1.00	17.63
		ATOM	3474	N	GLN	В	506	22.497	-2.706 17.293	1.00	20.30
		ATOM	3475	CA	GLN	В	506	21.772	-3.955 17.513	1.00	19.48
	•	MOTA	3476	CB	GLN	B	506	22.590	-4.893 18.469	1.00	21.75
	15	ATOM	3477	CG	GLN	В	506	23.798	-5.551 17.727	1.00	26.85
		ATOM	3478	CD	GLN	В	506	24.819	-6.070 18.736	1.00	26.18
		MOTA	3479	OE1	GLN	В	506	24.564	-6.084 19.943	1.00	21.83
		MOTA	3480	NE2	GLN	B	506	25.977	-6.499 18.245	1.00	25.39
		MOTA	3481	C	GLN	В	506	20.421	-3.672 18.166	1.00	21.39
	20	MOTA	3482	0	GLN	В	506	19.396	-4.233 17.766	1.00	20.87
		ATOM	3483	N	LEU	B	507	20.433	-2.800 19.171	1.00	19.52
		ATOM	3484	CA	LEU	B	507	19.219	-2.418 19.884	1.00	23.04
		MOTA	3485	CB	LEU	В	507	19.548	-1.455 21.030	1.00	22.82
		MOTA	3486	CG	LEU	В	507	20.182	-2.011 22.313	1.00	26.12
	25	ATOM	3487	CD1	LEU	В	507	20.203	-0.916 23.360	1.00	29.33
Ö	-	ATOM	3488	CD2	LEU	В	507	19.415	-3.213 22.816	1.00	27.80
ľŪ		ATOM	3489	C	LEU	В	507	18.212	-1.730 18.971	1.00	22.19
Ü		ATOM	3490	O	LEU	В	507	17.036	-2.070 18.964	1.00	23.00
 		ATOM	3491	N	LEU	В	508	18.678	-0.745 18.214	1.00	21.53
,/¶	30	ATOM	3492	CA	LEU	В	508	17.797	0.006 17.332	1.00	20.60
-4		ATOM	3493	CB	LEU	В	508	18.535	1.236 16.805	1.00	17.57
\		ATOM	3494	CG	LEU	В	508	18.934	2.218 17.913	1.00	17.67
		MOTA	3495	CD1	LEU	В	508	19.566	3.446 17.301	1.00	20.04
		ATOM	3496	CD2	LEU	В	508	17.724	2.611 18.725	1.00	18.49
ובי עני	35	MOTA	3497	C	LEU	В	508	17.235	-0.831 16.183	1.00	21.17
لدا		MOTA	3498	0	LEU	В	508	16.118	-0.597 15.728	1.00	21.88
		MOTA	3499	N	LEU	В	509	18.000	-1.813 15.713	1.00	21.89
		MOTA	3500	CA	LEU	B	509	17.511	-2.657 14.631	1.00	22.81
Ď		ATOM	3501	CB	LEU	В	509	18.603	-3.597 14.145	1.00	22.65
٠Ō	40	ATOM	3502	CG	LEU	В	509	19,645	-2.891 13.278	1.00	29.11
		ATOM	3503	CD1	LEU	В	509	20.697	-3.888 12.829	1.00	25.69
		ATOM	3504	CD2	LEU	В	509	18.965	-2.248 12.082	1.00	27.92
		MOTA	3505	e	LEU	В	509	16.302	-3.462 15.095	1.00	23.32
		ATOM	3506	0	LEU	B	509	15.409	-3.759 14.303	1.00	23.36
	45	ATOM	3507	N	ILE	В	510	16.264	-3.796 16.380	1.00	23.36
		ATOM	3508	CA	ILE	В	510	15.148	-4.562 16.912	1.00	20.99
		MOTA	3509	CB	ILE	B	510	15.448	-5.041 18.361	1.00	28.60
		ATOM	3510	CG2	ILE	B	510	14.162	-5.435 19.075	1.00	28.10
		ATOM	3511	CG1	ILE	В	510	16.383	-6.260 18.308	1.00	26.57
	50	MOTA	3512	CD1	ILE	В	510	17.429	-6.301 19.419	1.00	30.14
		ATOM	3513	C	ILE	В	510	13.852	-3.746 16.846	1.00	17.65
		ATOM	3514	0	ILE	В	510	12.767	-4.308 16.759	1.00	16.11
		ATOM	3515	N	LEU	В	511	13.961	-2.421 16.867	1.00	18.12
		ATOM	3516	CA	LEU	В	511	12.772	-1.574 16.774	1.00	16.95
	55	ATOM	3517	CB	LEU	В	511	13.147	-0.100 16.981	1.00	22.66
		ATOM	3518	CG	LEU	В	511	13.607	0.262 18.406	1.00	22.13
		ATOM	3519	CD1	LEU	В	511	13.404	1.751 18.652	1.00	25.29
		MOTA	3520	CD2	LEU	В	511	12.830	-0.549 19.425	1.00	25.08
		ATOM	3521	C	LEU	В	511	12.112	-1.771 15.397	1.00	16.65
	60	ATOM	3522	0	LEU	В	511	10.915	-1.578 15.242	1.00	17.09
		ATOM	3523	N	SER	В	512	12.901	-2.161 14.401	1.00	15.83
		ATOM	3524	CA	SER	В	512	12.355	-2.408 13.072	1.00	18.66
								010			

	5	ATOM	3525	CB	SER	В	512	13.484	-2.644 12.074	1.00	17.62
		ATOM	3526	O G	SER	В	512	13,079	-3.550 11.062	1.00	32,77
		ATOM	3527	С	SER	В	512	11.454	-3.638 13.154	1.00	18.54
		ATOM	3528	0	SER	В	512	10.373	-3.683 12.545	1.00	17.01
		MOTA	3529	N	HIS	В	513	11.899	-4.625 13.929	1.00	15.54
	10	ATOM	3530	CA	HIS	В	513	11.141	-5.860 14.115	1.00	17.67
	10										
		MOTA	3531	СВ	HIS	В	513	12.013	-6.916 14.790	1.00	19.03
		MOTA	3532	CG	HIS	B	513	13.063	-7.475 13.886	1.00	27.06
		ATOM	3533	CD2	HIS	B	513	12.980	-8.364 12.868	1.00	28.40
		MOTA	3534	NDl	HIS	В	513	14.378	-7.066 13.932	1.00	28.92
	15	ATOM	3535	CEL	HIS	B	513	15.061	-7.678 12.981	1.00	30.75
		MOTA	3536	NE2	HIS	В	513	14.235	-8.472 12.321	1.00	30,08
		ATOM	3537	С	HIS	В	513	9.895	-5.602 14.958	1.00	15.35
		ATOM	3538	0	HIS	В	513	8.846	-6.192 14.704	1.00	14,83
		ATOM	3539	N	ILE	В	514	10.012	-4.744 15.942	1.00	13.35
	20	ATOM	3540	CA	ILE	В	514	8.865	-4.417 16.776	1.00	15.48
	20										
		MOTA	3541	CB	ILE	B	514	9.295	-3.534 17.967	1.00	20.02
		ATOM	3542	CG2	ILE	B	514	8.067	-2.918 18.650	1.00	12.84
		ATOM	3543	CG1	ILE	B	514	10.093	-4.397 18.962	1.00	22.87
		ATOM	3544	CD1	ILE	B	514	10.691	-3.641 20.115	1.00	29.62
	25	ATOM	3545	Ç	ΙĻΕ	В	514	7.797	-3.717 15.923	1.00	15.16
Ď		ATOM	3546	0	ILE	В	514	6.606	-3.972 16.078	1.00	16.61
īŪ		ATOM	3547	N	ARG	В	515	8.224	-2.823 15.030	1.00	16.33
144		ATOM	3548	CA	ARG	В	515	7,280	-2.138 14.150	1.00	17.54
		ATOM	3549	CB	ARG	В	515	8.010	-1.173 13.214	1.00	20.15
-	30	ATOM	3550	CG	ARG	В	515	7.080	-0.454 12.234	1.00	21.47
1	50	ATOM	3551	CD	ARG	В	515	6.407	0.749 12.891	1.00	26.05
1=								7.220	1.948 12.716	1.00	24.91
· •		ATOM	3552	NE	ARG	В	515				
11		ATOM	3553	CZ	ARG	B	515	6.734	3.175 12.547	1.00	24.61
	~ ~	ATOM	3554	NH1	ARG	В	515	5.424	3.393 12.522	1.00	22.46
Į,J	35	ATOM	3555	NH2	ARG	B	515	7.569	4.182 12,374	1.00	23.15
لرا		ATOM	3556	С	ARG	В	515	6.545	-3.182 13.304	1.00	16.60
Ö		ATOM	3557	0	ARG	В	515	5.332	-3.093 13.087	1.00	14.51
Ü		ATOM	3558	N	HIS	В	516	7.298	-4.171 12.827	1.00	18.50
dur E		ATOM	3559	CA	HIS	В	516	6.743	-5.237 11.997	1,00	17.26
ιŌ	40	ATOM	3560	CB	HIS	В	516	7.861	-6.176 11.533	1.00	18.14
	•	ATOM	3561	CG	HIS	В	516	7.405	-7.223 10.568	1.00	24.87
		ATOM	3562	CD2	HIS	В	516	7.060	-8.521 10.754	1.00	26.64
		ATOM	3563	ND1	HIS	В	516	7.258	-6.978 9.220	1.00	21.82
		ATOM	3564	CE1	HIS	В	516	6.839	-8.078 8.619	1.00	28.42
	45										
	43	ATOM	3565	NE2	HIS	В	516	6.711	-9.028 9.526	1.00	24.47
		ATOM	3566	C	HIS	В	516	5.685	-6.028 12.759	1.00	16.87
		MOTA	3567	0	HIS	B	516	4.596	-6.303 12.240	1.00	14.81
		MOTA	3568	N	MET	В	517	5.999	-6.396 13.997	1.00	16.48
		MOTA	3569	CA	MET	В	517	5.049	-7,162 14.801	1.00	15.39
	50	ATOM	3570	CB	MET	В	517	5.701	-7.587 16.114	1.00	21.05
		ATOM	3571	CG	MET	В	517	6.790	-8.638 15.917	1.00	20.76
		ATOM	3572	SD	MET	В	517	7.380	-9.320 17.470	1.00	23.96
		ATOM	3573	CE	MET	В	517	8.104	-7.879 18.226	1.00	20.45
		ATOM	3574	c	MET	В	517	3.789	-6.368 15.080	1.00	16.23
	55	ATOM	3575	0	MET	В	517	2.688	-6.924 15.148	1.00	16.02
	33								•		
		ATOM	3576	N Cr	SER	В	518	3.954	-5.060 15.247	1.00	13.32
		ATOM	3577	CA	SER	В	518	2.827	-4.186 15.505	1.00	16.34
		ATOM	3578	CB	SER	В	518	3.316	-2.765 15.835	1.00	17.48
		ATOM	3579	OG	SER	В	518	2.234	-1.840 15.843	1.00	17.46
	60	ATOM	3580	С	SER	В	518	1.906	-4.147 14.284	1.00	14.73
		ATOM	3581	0	SER	В	518	0.688	-4.247 14.417	1.00	19.16
		ATOM	3582	N	ASN	В	519	2.474	-4.006 13.091	1.00	14.52
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	5	MOTA	3583	CA	ASN	В	519	1.622	-3.953	11.907	1,00	15.35
		ATOM	3584	CB	ASN	В	519	2.432	-3.509	10.698	1.00	19.21
		MOTA	3585	CG	ASN	В	519	2.700	-2.029	10.729	1.00	20.58
		ATOM	3586	OD1	ASN	В	519	1.839	-1.258	11.150	1.00	26.36
		ATOM	3587	ND2	ASN	В	519	3.891		10.307	1.00	19.62
	10	ATOM	3588	C	ASN	В.	519	0.911		11.658	1.00	16.74
	10	ATOM	3589	0	ASN	В	519	-0.265		11.297	1.00	20.58
	,							-				
		ATOM	3590	N	LYS	В	520	1.608		11.885	1.00	18.60
		MOTA	3591	CA	LYS	B	520	0.992		11.717	1.00	20.04
		MOTA	3592	CB	LYS	В	520	2.038		11.872	1.00	25.44
	15	MOTA	3593	CG	LYS	В	520	3.037		10.728	1.00	31.68
		ATOM	3594	CD	LYS	B	520	2.507	-9.663	9.558	1.00	42.56
		MOTA	3595	CE	LYS	В	520	2.186	-8.778	8.364	1.00	45.61
		MOTA	3596	NZ	LYS	В	520	1.435	-9.526	7.312	1.00	46.00
		MOTA	3597	С	LYS	В	520	-0.099	-7.868	12,769	1.00	18.88
	20	MOTA	3598	0	LYS	В	520	-1.183	-8.358	12.478	1.00	21.75
		MOTA	3599	N	GLY	В	521	0.191	-7.455	13,998	1.00	17.83
		ATOM	3600	CA	GLY	В	521	-0.792	-7.569	15.058	1.00	16.19
		ATOM	3601	C	GLY	В	521	-2.000		14.833	1.00	16.59
		ATOM	3602	ō	GLY	В	521	-3.128		15.125	1.00	16.57
_	25	ATOM	3603	N	MET	В	522	-1.766	-5.467		1.00	17.48
	ک چک	ATOM	3604	CA	MET	В	522	-2.852	-4.527		1.00	18.25
Û		ATOM	3605	CB	MET	В	522	-2.276	-3.212		1.00	21.27
IU							522 522					26.97
IJ		ATOM	3606	CG	MET	В		-3.190		13.707	1.00	
-	20	ATOM	3607	SD	MET	В	522	-3.199		15.417	1.00	30.35
****	30	ATOM	3608	CE	MET	В	522	-1.659	-0.605		1.00	29.86
		ATOM	3609	C	MET	В	522	-3.794		12.989	1.00	18.68
1:4		ATOM	3610	0	MET	В	522	-5.022		13.097	1.00	18.80
Ei .		ATOM	3611	N	GLU	В	523	-3.205	-5.731		1.00	18.22
		MOTA	3612	CA	GLU	В	523	-3,968	-6.357		1.00	23.41
	35	ATOM	3613	CB	GLU	В	523	-3.031	-6.946	9.830	1.00	28.74
لرا لرا		ATOM	3614	CG	GLU	В	523	-2.224	-5.935	9.030	1.00	34.42
174		ATOM	3615	CD	GLU	В	523	-1.095	-6.597	8.239	1.00	45.58
		ATOM	3616	OE1	GLU	В	523	-0.131	-5.894	7.857	1.00	49.48
Ď		ATOM	3617	OE2	GLU	В	523	-1.169	-7.825	7.999	1.00	45.97
۱Û.	40	ATOM	3618	С	GLU	В	523	-4.812	-7.482	11.465	1.00	23.98
		ATOM	3619	0	GLU	В	523	-5.993	-7.616	11.147	1.00	22.08
		ATOM	3620	N	HIS	В	524	-4.187		12.326	1.00	23.46
		ATOM	3621	CA	HIS	В	524	-4.846			1.00	26.20
		ATOM	3622	CB	HIS	В	524		-10.245		1.00	27.26
	45	ATOM	3623	CG	HIS	В	524	-4.378			1.00	30.91
		ATOM	3624	CD2	HIS	В	524		-12.792		1.00	30.90
		ATOM	3625	ND1	HIS	В	524		-11.537		1.00	28.87
		ATOM	3626	CE1	HIS	В	524		-12.780		1.00	30.45
	50	ATOM	3627	NE2	HIS	В	524		-13.561		1.00	29.19
	50	ATOM	3628	C	HIS	В	524	-5.996	-9.025		1.00	27.69
		ATOM	3629	0	HIS	В	524	-7.061	-9.656		1.00	25.00
		ATOM	3630	N	LEU	В	525	-5.777	-7.977		1.00	23.84
		ATOM	3631	CA	LEU	В	525	-6.786	-7.492		1.00	25.77
		MOTA	3632	CB	LEU	В	525	-6.217	-6.358	16.444	1.00	22.22
	55	ATOM	3633	CG	LEU	В	525	-7.164	-5.778		1.00	26.81
		ATOM	3634	CD1	LEU	В	525	-7.763	-6.922	18.321	1.00	23.32
		ATOM	3635	CD2	LEU	В	525	-6.414	-4.793	18.399	1.00	18.95
		MOTA	3636	С	LEU	В	525	-8.013	-6.995		1.00	26.84
		ATOM	3637	0	LEU	В	525	-9.154	-7.247		1.00	26.73
	60	ATOM		N	TYR	В	526	-7.764	-6.271		1.00	26.86
		ATOM	3639		TYR	В	526	-8.819	-5.726		1.00	30.89
		ATOM	3640		TYR	В	526	-8.201	-4.818		1.00	34.31
			-	. =		-		212	-			

		•										
	5	ATOM	3641	CG	TYR	В	526	-9.183	-4.223	10.878	1.00	43.50
		ATOM	3642	CD1	TYR	В	526	-10.058	-3.211	11.267	1.00	47.66
		ATOM	3643	CE1	TYR	В	526	-10.943	-2.636	10.357	1.00	48.85
		ATOM	3644	CD2	TYR	В	526	-9.218	-4.651	9.552	1,00	48.52
		ATOM	3645	CE2	TYR	В	526	-10.098	-4.083	8.634	1.00	52.43
	10	ATOM	3646	CZ	TYR	В	526	-10.955	-3.077		1.00	51.67
	. •	ATOM	3647	ОН	TYR	В	526	-11.810	-2.504	8.129	1.00	57.01
		ATOM	3648	C	TYR	В	52¢	-9.577		12,265	1.00	30.90
		ATOM	3649	0	TYR	В	526	-10.793		12.113	1.00	31.48
		ATOM	3650	N	SER	В	527	-8.849		11.889	1.00	31.39
	15							-9.460				33.73
	13	MOTA	3651	CA	SER	В	527			11.266	1.00	
		MOTA	3652	CB	SER	В	527		-10.048		1.00	34.13
		ATOM	3653	OG ~	SER	В	527		-11.222		1.00	43.67
		MOTA	3654	C	SER	В	527	-10.339		12.288	1.00	34.34
	20	ATOM	3655	0	SER	В	527		-10.261		1.00	33,42
	20	ATOM	3656	N	MET	В	528	-9.840		13.517	1.00	31.66
		MOTA	3657	CA	MET	В	528	-10.574			1.00	29.77
		ATOM	3658	CB	MET	В	528	-9.682			1.00	32.96
		ATOM	3659	CG	MET	B .	528	-8.651	-11.859	15.699	1.00	33,47
	_	ATOM	3660	ŞD	MET	В	528		-13.427		1.00	38.28
	25	ATOM	3661	CE	MET	В	528	-10.265	-13.915	16.579	1.00	36.01
Ö		ATOM	3662	C	MET	В	528	-11.800	-9.747	14.953	1.00	29.42
ĪŪ		ATOM	3663	0	MET	B	528	-12.835	-10.293	15.331	1.00	28.65
Œ		ATOM	3664	N	LYS	В	529	-11.673	-8.429	14.850	1.00	30.64
į.ė		ATOM	3665	CA	LYS	В	529	-12.781	-7.533	15.149	1.00	31.80
V	30	ATOM	3666	CB	LYS	В	529	-12.323	-6,079	15.027	1.00	32,86
i de		ATOM	3667	CG	LYS	В	529	-13.436	-5.043	15.114	1.00	36.42
`*\d		ATOM	3668	CD	LYS	В	529	-13.114	-3.852	14.224	1.00	41.74
		ATOM	3669	CE	LYS	В	529	-13.734	-2.564		1.00	43.45
in i		MOTA	3670	NZ	LYS	В	529	-15.221	-2.569	14.634	1.00	46.51
	35	ATOM	3671	С	LYS	В	529	-13.857	-7.840	14.116	1.00	36.60
IJ		MOTA	3672	0	LYS	В	529	-15.049	-7.877	14.424	1.00	34.04
IJ		ATOM	3673	N	CYS	В	530	-13.407	-8.083		1.00	40.04
		ATOM	3674	CA	CYS	В	530	-14.286	-8.409		1.00	44.58
Ď		ATOM	3675	CB	-CYS	В	530	-13.460	-8.535		1.00	50.64
Ü	40	ATOM	3676	SG	CYS	В	530	-13.369	-7.034	9.504	1.00	67.65
		ATOM	3677	C	CYS	В	530	-15.065	-9.692		1.00	42.88
	•	ATOM	3678	ō	CYS	В	530	-16.274		11.807	1.00	40.15
		ATOM	3679		LYS	В	531		-10.733		1.00	41.92
		ATOM		CA	LYS	В	531		-12.023		1.00	42.60
	45	ATOM	3681	CB	LYS	В	531		-13.091		1.00	44.77
		ATOM	3682	C	LYS	В	531		-11.907		1.00	44.43
		ATOM	3683	Õ	LYS	В	531		-12.804		1.00	44.09
		ATOM	3684	N	ASN	В	532		-10.793		1.00	44.98
		ATOM		CA	ASN	В	532				1.00	
	50				ASN	В	532 532		-10.496 -10.003			44.10
	50	ATOM	3686	CB			532 532				1.00	45.14
		ATOM	3687	CG	ASN	В		-18.526			1.00	46.54
		ATOM	3688	OD1	ASN	В	532		-9.424		1.00	50.62
		ATOM	3689		ASN	В	532		-8.471		1.00	46.07
	c e	ATOM		C	ASN	B	532		-11.657		1.00	43.34
	55	ATOM		0	ASN	В	532		-11.994		1.00	41.42
		ATOM		N	VAL	В	533		-12.264		1.00	43.45
		ATOM	3693	CA	VAL	В	533		-13.371		1.00	44.06
		ATOM	3694	CB	VAL	В	533		-14.219		1.00	45.56
		ATOM	3695	CG1	VAL	В	533		-14.263		1.00	45.67
	60	ATOM		CG2	VAL	В	533		-13.644		1.00	44.16
		ATOM	3697		VAL	В	533		-12.835		1.00	43.24
		ATOM	3698	0	VAL	В	533	-15.894	-13.602	20.548	1.00	44.21

	5	AŢOM	3757	N	LEU	В	541	-10.559	0.206 20.726	1.00	22.40
		ATOM	3758	CA	LEU	В	541	-11.164	0.419 19.413	1.00	23,27
		ATOM	3759	CB	LEU	В	541	-12.686	0.429 19.527	1.00	25.12
		ATOM	3760	CG	LEU	В	541	-13.410	-0.808 18.999	1.00	36.53
		ATOM	3761	CD1	LEU	В	541	-14.910	-0.671 19,273	1.00	30.98
	10	ATOM	3762	CD2	LEU	В	541	-13.136	-0.971 17.508	1.00	31.93
	- 0	ATOM	3763	ç	LEU	В	541	-10.697	1.751 18.842	1.00	22.46
		MOTA	3764	ó	LEU	В	541	-10.359	1.845 17.666	1.00	26.29
		ATOM		N	GLU	B	542	-10.594	2.781 19.680	1.00	23.96
			3765						•		
	1.5	MOTA	3766	CA .	GLU	В	542	-10.248	4.106 19.276	1.00	26.91
	15	ATOM	3767	CB	GLU	В	542	-10.250	5.050 20.468	1.00	30.84
		ATOM	3768	CG	GLU	В	542	-11.166	6.245 20.347	1.00	37.20
		ATOM	3769	CD	GLU	В	542	-11.138	7.105 21.597	1.00	39.98
		MOTA	3770	OE1	GLU	В	542	-12.223	7.385 22.144	1.00	39.92
		MOTA	3771	OE2	GLU	В	542	-10.028	7.494 22.034	1.00	38.96
	20	ATOM	3772	C	GLU	B	542	-8.826	4.010 18.724	1.00	27.90
		ATOM	3773	0	GLU	В	542	-8.530	4.492 17.634	1.00	29.32
		ATOM	3774	N	MET	В	543	-7.945	3.388 19.499	1.00	26.41
		ATOM	3775	CA	MET	B	543	-6.552	3.237 19.107	1.00	23.53
		ATOM	3776	CB	MET	В	543	-5.749	2.591 20.247	1.00	24.60
	25	ATOM	3777	CG	MET	В	543	-5.812	3.338 21.579	1.00	26.46
	23										
40		ATOM	3778	SD	MET	В	543	-5,373	5.084 21.467	1.00	29.45
Ū		MOTA	3779	CE	MET	В	543	-3.585	4.971 21.349	1.00	25.43
iō		MOTA	3780	С	MET	В	543	-6.403	2.407 17.832	1.00	25.80
i.d		ATOM	3781	0	MET	В	543	-5.535	2.686 17.004	1.00	23.59
<u> </u>	30	ATOM	3782	N	LEU	В	544	-7.254	1.394 17.673	1.00	27.74
ind.		ATOM	3783	CA ·	LEU	В	544	-7.202	0.522 16.499	1.00	26.32
, <u>~</u>		ATOM	3784	CB	LEU	В	544	-8.069	-0.721 16.719	1.00	26.75
		ATOM	3785	ÇG	LEU	В	544	-8.274	-1.632 15.502	1.00	28.12
ži 1886.		ATOM	3786	CD1	LEU	В	544	-6.956	-2.294 15.136	1.00	26.36
100	35	ATOM	3787	CD2	LEU	В	544	-9.330	-2.680 15.803	1.00	27.00
لدا		ATOM	3788	C	LEU	В	544	-7.672	1.252 15.250	1.00	26.97
لدا		ATOM	3789	Ö	LEU	В	544	-7.036	1.181 14.195	1.00	24.25
۵		ATOM	3790	N	ASP	В	545	-8.787	1.961 15.372	1.00	30.37
i I I		ATOM	3791					-9.338	2.702 14.244	1.00	32.34
Ü	40			CA	ASP	В	545				
-	40	ATOM	3792	СВ	ASP	В	545	-10.668	3.346 14.637	1.00	36.61
		MOTA	3793	CG	ASP	В	545	-11.818	2.370 14.565	1.00	42.73
		MOTA	3794	OD1	ASP	В	545	-12.858	2.624 15.211		
		MOTA	3795		ASP	В	545	-11.676	1.342 13.863	1.00	46.96
		MOTA	3796		ASP	В	545	-8.382	3.762 13.711	1,00	31.27
	45	MOTA	3797	0	ASP	B	545	-8.443	4.120 12.532	1.00	30.53
		AŢOM	3798	N	ALA	В	546	-7.506	4.272 14.572	1.00	29.02
		MOTA	3799	CA	ALA	В	546	-6.543	5.280 14.141	1.00	31.21
		ATOM	3800	CB	ALA	В	546	-5.646	5.693 15.306	1.00	30.98
		ATOM	3801	С	ALA	В	546	-5.697	4.731 12.996	1.00	32.14
	50	ATOM	3802	Ö	ALA	В	546	-5.189	5.490 12.170	1.00	33.78
	-	ATOM	3803	N	HIS	В	547	-5.555	3.410 12.943	1.00	32.27
					HIS				2.767 11.892		
		ATOM	3804	CA		В	547	-4.773		1.00	37.73
		ATOM	3805	CB	HIS	В	547	-3.991	1.576 12.457	1.00	35.83
		MOTA	3806	CG	HIS	В	547	-2.796	1.968 13.269	1.00	34.54
	55	ATOM	3807	CD2	HIS	В	547	-2.698	2.553 14.486	1.00	30.23
		MOTA	3808	ND1	HIS	В	547	-1.502	1.755 12.840	1.00	34.23
		MOTA	3809	CE1	HIS	В	547	-0.659	2.193 13.760	1.00	36.72
		ATOM	3810	NE2	HIS	В	547	-1.360	2.681 14.768	1.00	31.48
		ATOM	3811	C	HIS	В	547	-5.649	2.286 10.735	1.00	43.69
	60	ATOM	3812	0	HIS	В	547	-5.178	2.152 9.606	1.00	46.04
		ATOM		N	ARG	В	548	-6.919	2.020 11.019	1.00	48.35
		ATOM	3814		ARG	В	548	-7.843	1.551 9.993	1.00	54.74
								016			

	5	MOŢA	3815	CB	ARG	B	548	-8.522		10.452	1.00	54.66
		atom	3816	C	ARG	B	548	-8.886	2.619	9.681	1.00	59.94
		ATOM	3817	0	ARG	B	548	-8.580	3.812	9.672	1.00	62.81
		ATOM	3818	N	LEU	₿	549	-10.116	2.186	9.422	1.00	64,81
		MOTA	. 3819	CA	LEU	В	549	-11.204	3.109	9.112	1.00	67.59
	10	ATOM	3820	CB	LEU	В	549	-12.478	2.327	8.799	1.00	68.06
		ATOM	3821	C	LEU	В	549	-11.449	4.069	10.275	1.00	69.12
		ATOM	3822	ō	LEU	В	549	-11.451		10.036	1.00	68.96
		ATOM	3823	OXT	LEU	В	549	-11.634		11.412	1.60	70.70
		HETATM	3824	CP9	DES	В	600	-4.547	-6.077	-	1.00	18.55
	15	HETATM	3825	CP8	DES	B	600	-3.163	-6.365		1.00	17.72
	13						600	-2.897	-7.853		1.00	
		HETATM	3826	CP7	DES	В				•		21.17
		HETATM	3827	CP6	DES	B	600	-3.719	-8.551		1.00	22.05
		HETATM	3828	CP1	DES	В	600	-3.405	-8.481		1.00	21.32
	••	HETATM	3829	CP2	DES	B	600	-4.239	-9.095		1.00	21.61
	20	HETATM	3830	CP3	DES	B	600	-5.388	-9.771		1.00	24,89
		HETATM	3831	OP3	DES	В	600		-10.339		1.00	24.94
		HETATM	3832	CP4	DES	В	600	-5.718	-9.858		1.00	24.08
•		HETATM	3833	CP5	DES	В	600	-4.877	-9.240	20.791	1.00	24.67
		HETATM	3834	C7	DES	В	600	-1.998	-8.460	22.190	1.00	16.67
2 1EQ.	25	HETATM	3835	C6	DES	В	600	-1.330	-7.834	23.325	1.00	15.39
		HETATM	3836	C5	DES	В	600	-2.054	-7.642	24.522	1.00	17.62
D		HETATM	3837	Ç4	DES	В	600	-1.433	-7.072	25.634	1.00	16.16
IU		HETATM	3838	C3	DES	В	600	-0.077	-6.685	25.542	1.00	20.04
Ũ		HETATM	3839	03	DES	В	600	0.509	-6.113		1.00	15.55
-	30	HETATM	3840	C2	DES	В	600	0.669	-6.866		1.00	18.94
, A	50	нетатм	3841	Cl	DES	В	600	0.035	-7.440		1.00	15.20
		HETATM	3842	C8	DES	В	600	-1.642	-9.903		1.00	17,61
, 4		HETATM	3843	C9	DES	В	600	-0.440			1.00	11.63
Bi		HETATM	3844	Cl	CBM	В	417	-4.997	-22.994		1.00	55.80
	35	HETATM	3845	04	CBM	В	417	-4.789	-24.187		1.00	55.56
ليا	33		=									
لَيَا		HETATM	3846	03	CBM,	В	417	-4.798	-22.559		1.00	56.04
3		HETATM	3847	C2	CBM	В	417	-5.468	-21.960		1.00	57.04
Ö		HETATM	3848	C1	CBM	В	530	-15.278	-5.124		1.00	87.39
Ď	4.0	HETATM	3849	04	CBM	В	530	-15.852	-5.086	9.064	1.00	87.68
1 1	40	HETATM	3850	03	CBM	В	530	-15.832	-4.291	-	1.00	86.22
		HETATM	3851	C2	CBM	В	530	-14.207	-5.886		1.00	87.65
		ATOM	3852	CB	HIS	C	687		-20.030		1.00	63,34
		ATOM	3853	C	HIS	C	687		-20.267		1.00	63.49
		MOTA	3854	0	HIS	C	687	11.204	-20.840	-4.472	1.00	63.87
	45	MOTA	3855	N	HIS	C	687	7.944	-19.563	-3.758	1.00	65.42
		ATOM	3856	CA	HIS	C	687	9.424	-19.484	-3.586	1,00	64.86
		ATOM	3857	N	LYS	C	688	9.533	-20.281	-5.875	1.00	62.00
		ATOM	3858	CA	LYS	C	688	10.101	-20.999	-7.009	1.00	60.81
		ATOM	3859	CB	LYS	C	688		-21.540		1.00	61.76
	50	MOTA	3860	C	LYS	C	688		-20.127		1.00	57.47
		ATOM	3861	ō	LYS	Ċ	688		-20.379		1.00	57.64
		ATOM	3862	N	ILE	c	689		-19.103			55.74
		ATOM	3863	CA	ILE	c	689		-18.212		1.00	53.09
						c	689					
	55	ATOM	3864	CB	ILE				-17.057 -16.386-		1.00	53.83
	<i></i>	ATOM	3865	CG2	ILE	C	689	11.334	-16.286-		1.00	54.55
		ATOM	3866	CG1	ILE	C	689	9.229	-17.603-		1.00	52.90
	•	ATOM ·	3867	CD1	ILE	C	689		-16.550-		1.00	50.45
		ATOM	3868	C	ILE	C	689		-17.611	-	1.00	50.82
	60	ATOM	3869	0	ILE	C	689		-17.550		1.00	51.28
	60	ATOM	3870	N	LEU	C	690		-17.162		1.00	48.01
		ATOM	3871	CA	LEU	C	690		-16.570		1.00	47.33
		ATOM	3872	CB	LEU	C	690	12.812	-16.058	-5.199	1,.00	42.51

5	ATOM	3873	CG	LEU	С	690	13.835	-15.501 -4.206	1.00	40.67
	MOTA	3874	CD1	LEU	C	690	14.575	-14.324 -4.831	1.00	39.95
	ATOM	3875	CD2	LEU	C	690	13.128	-15.078 -2.926	1.00	38.77
	ATOM	3876	C	LEU	Ċ	690	14.445	-17.615 -6.282	1.00	48.87
	ATOM	3877	ō	LEU	Ċ	690	15.643	-17.340 -6.393	1.00	46.71
10	MOTA	3878	N	HIS	C	691	14.001	-18.818 -5.939	1.00	51.36
10					c	691	14.886	-19.946 -5.675	1.00	53.35
	ATOM	3879	CA	HIS						
	ATOM	3880	CB	HIS	C	691	14.042	-21.203 -5.460	1.00	58.64
	MOTA	3881	CG	HIS	C	691	14.655	-22.195 -4.526	1.00	62.94
	ATOM	3882	CD2	HIS	C	691	15.503	-23.227 -4.751	1.00	64.95
15	ATOM	3883	ND1	HIS	C	691	14.392	-22.202 -3.173	1.00	65.49
	Atom	3884	CE1	HIS	C	691	15.053	-23.195 -2.605	1.00	68.18
	MOTA	3885	NE2	HIS	C	691	15,733	-23.833 -3.540	1.00	68.77
	MOTA	3886	C	HIS	C	691	15.824	-20.162 -6.861	1.00	52.19
	MOTA	3887	0	HIS	C	691	17.048	-20.153 -6.717	1.00	47.53
20	MOTA	3888	N	ARG	C	692	15.222	-20.350 -8.032	1.00	52.37
	ATOM	3889	CA	ARG	C	692	15.949	-20.586 -9.271	1.00	52.90
	ATOM	3890	CB	ARG	C	692	14.955	-20.832-10.410	1.60	54.04
	ATOM	3891	CG	ARG	C	692	15.575	-20.826-11,797	1.00	57,52
	ATOM	3892	CD	ARG	C	692	14.528	-21,048-12.874	1.00	58.25
25	ATOM	3893	NE	ARG	C	692	14.375	-19.878-13.732	1.00	61.43
	ATOM	3894	CZ	ARG	Ċ	692	13.218	-19.260-13.951	1.00	64.32
i	ATOM	3895	NH1	ARG	Ċ	692	12.108	-19.706-13.378	1.00	63.22
	ATOM	3896	NH2	ARG	C	692	13.171	-18.197-14.746	1.00	65.93
l	ATOM	3897	C	ARG	C	692	16.873	-19.434 -9.639	1.00	53.09
30	ATOM	3898	0	ARG	C	692	18.047	-19.644 -9.956	1.00	53.06
30			N		C	693	16.338	-19.644 -9.556	1.00	50.73
	ATOM	3899		LEU						
	ATOM	3900	CA	LEU	C	693	17.125	-17.039 -9.945	1.00	49.53
•	ATOM	3901	CB	LEU	C	693	16.249	-15.784 -9.881	1.00	49.56
20	ATOM	3902	CG	LEU	C	693	15.781	-15.245-11.239	1.00	49.78
35	MOTA	3903	CD1	LEU	C	693	15.219	-16.389-12.079	1.00	50.30
<u>'</u>	ATOM	3904	CD2	LEU	Ç	693	14.728	-14.170-11.037	1.00	48.79
) :	MOTA	3905	C	ĻEU	С	693	18.318	-16.904 -9.006	1.00	48.38
	ATOM	3906	0	LEU	C	693	19.382	-16.426 -9.402	1.00	46.35
	ATOM	3907	N	LEU	C	694	18.135	-17.329 -7.761	1.00	46.74
40	ATOM	3908	CA	LEU	C	694	19.204	-17.272 -6.775	1.00	49.41
	MOTA	3909	CB	LEU	C	694	18.634	-17.415 -5.362	1.00	45.20
	MOTA	3910	CG	LEU	C	694	18.222	-16.128 -4.643	1.00	40.19
	MOTA	3911	CD1	LEU	C	694	17.456	-16.474 -3.371	1.00	41.65
	MOTA	3912	CD2	LEU	C	694	19.453	-15.307 -4.317	1.00	35.91
45	ATOM	3913	C	LEU	C	694	20.172	-18.417 -7.058	1.00	54.15
	MOTA	3914	0	LEU	C	694	21.370	-18.320 -6.776	1.00	53.55
	MOTA	3915	N	GLN	С	695	19.634	-19.498 -7.619	1.00	57.44
	ATOM	3916	CA	GLN	C	695	20.416	-20.685 -7.959	1.00	62.46
	ATOM	3917	CB	GLN	С	695		-21.853 -8.304	1.00	61.95
50	ATOM	3918	CG	GLN	C	695		-23.010 -7.311	1.00	61.49
	ATOM	3919	CD	GLN	Ċ	695		-24.053 -7.490	1.00	62.78
	MOTA	3920	OE1	GLN	c	695		-24.928 -6.653	1.00	63.33
	ATOM	3921	NE2	GLN	c	695		-23.969 -8.608	1.00	60.37
	MOTA	3922	C	GLN	C	695		-20.414 -9.149	1.00	65.13
55	ATOM	3923	0	GLN	C	695	22.517	-20.414 -9.149	1.00	65.87
رر										
	ATOM	3924	N	ASP	C	696		-19.824-10.197	1.00	67.67
	ATOM	3925	CA	ASP	C	696	21.492	-19.500-11.420	1.00	70.66
	ATOM	3926	CB	ASP	C	696	20.801	-18.348-12.151	1.00	71.06
60	MOTA	3927	CG	ASP	C	696	20.127	-18.792-13.430	1.00	71.70
60	ATOM	3928	OD1	ASP	C	696	20.637	-18.455-14.521	1.00	72.47
	ATOM	3929	OD2	ASP	C	696		-19.478-13.342	1.00	71.41
	ATOM	3930	С	ASP	С	696	22.951	-19.132-11.169	1.00	72.41

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	5	MOTA	3931	0	ASP	С	696	23.245		1.00	72.56
		ATOM	3932	N	SER	Ç	697	23.859	-19.967-11.668	1.00	74.67
		ATOM	3933	CA	SER	C	697	25.291	-19.741-11.507	1.00	76.45
		ATOM	3934	CB	SER	C.	697	26.019	-21.076-11.377	1.00	76.00
		MOTA	3935	С	SER	C	697	25.841	-18.960-12.696	1.00	78.44
	10	MOTA	3936	0	SER	С	697	26.286	-17.809-12.489	1.00	79.20
		ATOM	3937	OXT	SER	С	697	25.818		1.00	80.07
		ATOM	3938	CB	LYS	D	686	-14.070	13.661 16.843	1.00	50.28
		MOTA	3939	C	LYS	D	686	-13.682	14.418 19.199	1.00	51.59
		ATOM	3940	ō	LYS	D	686	-12.629	14.738 19.759	1.00	50.42
	15						686		15.796 17.283	1.00	50.42
	15	ATOM	3941	N	LYS	D		-12.910			
		MOTA	3942	CA	LYS	D	686	-13.976	14.872 17.769	1.00	50.62
		MOTA	3943	N	HIS	D	687	-14.617	13.676 19.787	1.00	49.91
		MOTA	3944	CA	HIS	D	687	-14.447	13.176 21.144	1,00	51.28
		MOTA	3945	CB	HIS	D	687	-15.806	12.984 21.828	1.00	54.12
	20	ATOM	3946	CG	HIS	D	687	-15.713	12.336 23.177	1.00	60.06
		MOTA	3947	CD2	HIS	D	687	-15.418	11.064 23.539	1.00	61.05
		MOTA	3948	ND1	HIS	D	687	-15.911	13.030 24.352	1.00	62.39
		MOTA	3949	CEl	HIS	D	687	-15.741	12.215 25.378	1.00	62.76
		ATOM	3950	NE2	HIS	D	687	-15.441	11.016 24.912	1.00	63.46
	25	ATOM	3951	C	HIS	D	687	-13.691	11.849 21.163	1.00	49.55
		ATOM	3952	0	HIS	D	687	-14.099	10.878 20.524	1.00	50.84
·D		ATOM	3953	N	LYS	D	688	-12.593	11.816 21.909	1.00	44.00
IJ		ATOM	3954	CA	LYS	D	688	-11.784	10.611 22.038	1.00	40.31
Ü		ATOM	3955	CB	LYS	D	688	-10.446	10.773 21.299	1.00	41.42
d	30	ATOM	3956	CG	LYS	D	688	-10.513	10.773 21.233	1.00	42.76
1	30										
14		MOTA	3957	CD	LYŚ	D	688	-9.123	10.716 19.152	1.00	38.66
, ed		ATOM	3958	CE	LYS	D	688	-9.162	10.529 17,640	1.00	38.28
		MOTA	3959	NZ	LYS	D	688	-7.894	10.970 16.986	1.00	31.58
	2.5	MOTA	3960	C	LYS	D	688	-11.506	10.378 23.517	1.00	36.70
	35	MOTA	3961	0	LYS	D	688	-11.271	11.326 24.266	1.00	33.38
IJ		ATOM	3962	N	ILE	D	689	-11,549	9.122 23.942	1.00	33.06
IJ		MOTA	3963	CA	ILE	D	689	-11.255	8.806 25.328	1.00	28.70
		MOTA	3964	CB	ILE	D	689	-11.438	7.301 25.607	1.00	30.88
ij		MOTA	3965	CG2	ILE	D	689	-10.725	6.912 26.899	1.00	31.45
ıΩ	40	MOTA	3966	CG1	ILE	D	689	-12.927	6.971 25.721	1.00	32.57
		ATOM	3967	CD1	ILE	D	689	-13.308	5.679 25.031	1.00	29.79
		ATOM	3968	С	ILE	D	689	-9.790	9.193 25.541	1.00	27,64
		ATOM	3969	0	ILE	D	689	-9.405	9.649 26.611	1.00	25.54
		ATOM	3970	N	LEU	D	690	-8.985	9.021 24.496	1.00	24.25
	45	ATOM	3971	CA	LEU	D	690	-7.563	9.348 24.549	1.00	26.63
		ATOM	3972	CB	LEU	D	690	-6.903	9.021 23.200	1.00	22.83
		ATOM	3973	CG	LEU	D	690	-5.433	9.387 22.992	1.00	25.47
		ATOM	3974	CD1	LEU	D	690	-4.595	8.772 24.108	1.00	24.03
	50	ATOM	3975	CD2	LEU	D	690	-4.956	8.898 21.616	1.00	20.87
	50	ATOM	3976	C	LEU	D	690	-7.344	10.823 24.902	1.00	26.64
		ATOM	3977	0	LEU	D	690	-6.408	11.165 25.625	1.00	28.34
		ATOM	3978	N	HIS	D	691	-8.206	11.694 24.383	1.00	27.77
		MOTA	3979	CA	HIS	D	691	-8.107	13.125 24.665	1.00	29.16
		ATOM	3980	CB	HIS	D	691	-9.156	13.907 23.861	1.00	30.89
	55	ATOM	3981	CG	HIS	D	691	-8.903	13.935 22.386	1.00	37.09
		ATOM	3982	CD2	HIS	D	691	-7.750	14.000 21.679	1.00	41.39
		ATOM	3983	ND1	HIS	D	691	-9.920	13.906 21.458	1.00	41.65
		ATOM	3984	CE1	HIS	Ď	691	-9.407	13.953 20.242	1.00	44.64
		ATOM	3985	NE2	HIS	D	691	-8.091	14.010 20.347	1.00	41.94
	60	ATOM		C	HIS	D	691	-8.338	13.373 26.159	1.00	26.65
		ATOM		0	HIS	ם	691	-7.602		1.00	24.50
		ATOM	3988		ARG	D	692	-9.371	12.742 26.703	1.00	25.70
		~* O!1	3300	7.4	~~	ט	0 7 2	-9.3/1	LE. 1782 40. 143	1.00	23.70

	5	ATOM	3989	CA	ARG	D	692	-9.691	12.912 28.114	1.00	29.11
		MOTA	3990	CB	ARG	D	692	-10.959	12.134 28.472	1.00	30.84
		MOTA	3991	CG	arg	D	692	-11.255	12.129 29.963	1.00	41.63
		ATOM	3992	CD	ARG	D	692	-12.502	11.327 30.290	1.00	48.83
	_	ATOM	3993	NE	ARG	D	692	-13.618	12.198 30.647	1.00	54.50
	10	MOTA	3994	CZ	ARG	D	692	-14.498	12.677 29.774	1.00	5.9 . 3 7
		MOTA	3995	NH1	ARG	D	692	-14.392	12.371 28.486	1.00	60.97
		ATOM	3996	NH2	ARG	D	692	-15.483	13.464 30.188	1.00	59.07
		MOTA	3997	C	ARG	D	692	-8.548	12.451 29.011	1.00	28.30
		MOTA	3998	0	ARG	D	692	-8.139	13.167 29.929	1.00	26.50
	15	ATOM	3999	N	LEU	D	693	-8.030	11.259 28.737	1.00	24.87
		MOTA	4000	CA	LEU	D	693	-6.943	10.705 29.536	1.00	2 7 .17
		MOTA	4001	CB	LEU	D	693	-6.674	9.254 29.116	1.00	28.45
		ATOM	4002	CG	LEU	D	693	-7.844	8.300 29.391	1.00	30.40
		MOTA	4003	CD1	LEU	D	693	-7.575	6.932 28.778	1.00	34.79
	20	MOTA	4004	CD2	LEU	D	693	-8.043	8.171 30.894	1.00	32.02
		MOTA	4005	C	LEU	D	693	-5.670	11.539 29.440	1.00	25.96
		ATOM	4006	0	LEU	D	693	-4.948	11.700 30.428	1.00	27.01
		MOTA	4007	N	LEU	D	694	-5.395	12.080 28.257	1.00	25.33
		MOTA	4008	CA	LEU	D	694	-4.207	12.906 28.062	1.00	27.22
1750	25	MOTA	4009	CB	LEU	D	694	-3.948	13.126 26.572	1.00	24.61
		MOTA	4010	CG	LEU	D	694	-3.118	12.080 25.825	1.00	22.20
۱ <u>۵</u>		ATOM	4011	CD1	LEU	D	694	-3.230	12.332 24.324	1.00	21.13
ľŲ		MOTA	4012	CD2	LEU	D	694	-1.666	12.148 26.275	1.00	21.34
D		MOTA	4013	С	LEU	D	694	-4.336	14.270 28.742	1.00	32.40
ار. الم	30	ATOM	4014	0	LEU	D	694	-3.339	14.889 29.102	1.00	31.55
-61 -61		ATOM	4015	N	GLN	D	695	-5.570	14.733 28.915	1.00	36.93
ائم. ا		ATOM	4016	CA	GLN	D	695	-5.820	16.032 29.528	1.00	43.18
		MOTA	4017	CB	GLN	D	695	-7.022	16.694 28.862	1.00	40.48
21 2004	• =	ATOM	4018	CG	GLN	D	695	-6.772	17.071 27.422	1.00	37.99
	35	ATOM	4019	CD	GLN	D	695	-7.943	17.764 26.795	1.00	35.86
į,j		MOTA	4020	OE1	GLN	D	695	-7.863	18.895 26.342	1.00	38.84
Ų		ATOM	4021	NE2	GLN	D	695	-9.082	17.060 26.757	1.00	31.62
		ATOM	4022	C	GLN	D	695	-6.049	16.009 31.034	1.00	48.74
Û	40	MOTA	4023	0	GLN	D	695	-6.119	17.065 31.660	1.00	51.25
Ð	40	ATOM	4024	N	ASP	D	696	-6.175	14.818 31.611	1.00	54.01
		ATOM	4025	CA	ASP	D	696	-6.398	14.702 33.047	1.00	62.23
		ATOM	4026		ASP	D	696	-6.217	13.238 33.485	1.00	63.97
		ATOM	4027		ASP	D	696	-7.527	12.467 33.475	1.00	67.72
	45	ATOM	4028	OD1	ASP	D	696	-8.528	12.996 32.941	1.00	68.11
	43	MOTA	4029	OD2	ASP	D	696	-7.552	11.333 34.003	1.00	68.95
		ATOM	4030	C	ASP	D	696	-5.456	15.622 33.840	1.00	65.60
		ATOM	4031	0	ASP	D	696	-4.312	15.189 34.134	1.00	68.33
		MOTA		OXT	ASP	D	696	-5.874	16.755 34.140	1.00	69.20
	50	HETATM	4033	0	нон		1	16.153	-0.605 -4.425	1.00	17.11
	30	HETATM	4034	0	нон		2	16.570	-5.304-16.560	1.00	21.44
		HETATM	4035	0	нон		3	18.526	0.742 -4.495	1.00	23.43
		HETATM	4036	0	нон		4	13.647	-2.187 8.588	1.00	25.82
		HETATM	4037	0	нон		5	9.778	-5.825 2.509	1.00	20.58
	55	HETATM	4038	0	нон		6	17.072	-3.605 -8.015	1.00	18.38
		HETATM	4039	0	HOH		7	24.920	-1.689 -2.780	1,00	25.74
		HETATM	4040	0	HOH		8	7.321	-5.649 5.061	1.00	24.11
		HETATM	4041	0	НОН		9	25.976	-3.535 15.158	1.00	26.78
		HETATM	4042	0	НОН		10	15.088	-7.006-15.192	1.00	19.64
	60	HETATM	4043	0	HOH		11	14.070	0.925 -5.953	1.00	20.55
	00	HETATM	4044	0	HOH		12	18.008 31.949	3.407 -6.654 -8.393 13.487	1.00	32.30 30.64
		HETATM			HOH		13	19.625	-8.393 13.487 -2.804 -4.279	1.00	24.45
		HETATM	4046	9	нон		14	13.023	-2.004 -4.2/3	1.00	44·43

	5	HETATM	4047	0	нон	15	11.741	1.079-21.140	1.00	25.87
		HETATM	4048	o	нон	16	25.067	13.951 14.153	1.00	31.07
		HETATM	4049	0	нон	17	15.501	1.323-10.393	1.00	21.01
		HETATM	4050	0	нон	18	13.880	3.349-11.482	1.00	24.28
		HETATM	4051	O	нон	19	17.591	0.979 -8.828	1.00	35.26
	10	HETATM	4052	ō	нон	20	23.682	-2.041 -0.314	1.00	37.90
		HETATM	4053	o	нон	21	15.754	9.496 11.841	1.00	39.44
		HETATM	4054	0	нон	22	-4.943	7.574 -3.066	1.00	37.67
				_						
		HETATM	4055	0	нон	23	6.877	0.354-15.982	1.00	36.92
	1.5	HETATM	4056	0	нон	24	15.806	-4.002 8.671	1.00	30.38
	15	HETATM	4057	0	нон	25	17.185	-3.158 -5.321	1.00	28.89
		HETATM	4058	0	нон	26	17.572	9.249 17.009	1.00	30.15
		HETATM	4059	0	нон	27	24.096	-2.929 11.604	1.00	31.37
		HETATM	4060	0	нон	28	22.324	-5.871-11.980	1.00	32.74
•		HETATM	4061	0	нон	29	27.547	-12.361 -0.801	1.00	36,61
	20	HETATM	4062	0	нон	30	11.173	13.442 -2.719	1.00	35.41
		HETATM	4063	0	нон	31	15.438	-9.527 5.483	1.00	29.88
		HETATM	4064	0	нон	32	9.946	-6.564 5.983	1.00	35.05
	•	HETATM	4065	0	нон	33	7.599	11.680-15.261	1.00	38.68
		HETATM	4066	0	нон	34	20.112	10.503 -5.109	1.00	42.66
J. ETC.	25	HETATM	4067	0	нон	35	15.972	10.343 14.897	1.00	41.73
		HETATM	4068	0	нон	36	22.401	-5.914 -9.527	1.00	28.08
Q		HETATM	4069	0	нон	37	16.128	-0.899 -8.109	1.00	33.13
IJ		HETATM	4070	0	нон	38		15.655 -3.706	1.00	41.37
Œ		HETATM	4071	Ō	нон	39	31.900	13.545 21.339	1.00	37.79
ļuš	30	HETATM	4072	Ö	нон	40	20.058	-7.530 14.119	1.00	47.51
1.00	50	HETATM	4073	0	нон	41	34.634	6.668 15.632	1.00	29.24
i ab		HETATM	4074	0	нон	42	17.968	10.511 -9.085	1.00	44.60
٠٠٠. ايون		HETATM	4075	o	нон	43		-17.325 -4.088	1.00	44.10
B)		HETATM	4076	0	нон	44	4.034	-1.472 27.521	1.00	15.22
	35	HETATM	4077	0	нон	45	-5.943	-0.018 36.088	1.00	21.11
ليرا	55	HETATM	4078	0	нон	46	6.084	-1.509 29.478	1.00	19.51
لرا				_		47	9.762	1.061 15.621	1.00	27.74
		HETATM	4079	0	нон					
Ō		HETATM	4080	0	нон	48	1.804	0.717 17.260	1.00	20.97
Ō	40	HETATM	4081	0	нон	49	0.929	0.421 30.281	1.00	19.64
100	40	HETATM	4082	0	нон	50	9.627	4.271 31.231	1.00	19.02
		HETATM	4083	0	нон	51	2.121	-0.261 13.654	1,00	26.09
		HETATM	4084	0	нон	52	20.060	10.275 17.711	1.00	25.49
	;	HETATM	4085	_	нон	53	-6.786	0.736 33.483	1.00	22.34
		HETATM	4086	0	HOH	54	, 2.751	-4.136 27.760	1.00	19.93
	45	HETATM	4087	0	HOH	55	5.994	-4.079 31.292	1.00	32.27
		HETATM	4088	0	нон	56	19.416	16.921 21.645	1.00	25.54
		HETATM	4089	0	нон	57	4.833	2.325 29.006	1.00	19.00
		HETATM	4090	0	нон	58	-7.638	-8.931 37.809	1.00	24.79
		HETATM	4091	0	HOH	59	28.442	-4.673 21.875	1.00	24.32
	50	HETATM	4092	0	нон	60	1.094	-4.893 32.100	1.00	24.27
		HETATM	4093	0	нон	61	0.905	-7.306 32.783	1.00	21,33
		HETATM	4094	0	нон	62	3.396	-2.971 32.306	1.00	
		HETATM	4095	0	нон	63	10.363	4.576 28.391	1.00	33.43
		HETATM		0	нон	64	19.551	-6.473 16.597	1.00	35.38
	55	HETATM	4097	ō	нон	65		-19.627 15.665	1.00	27.99
		HETATM	4098	Ö	нон	66	-7.275	-9.745 31.077	1.00	27.00
		HETATM		0	нон	67	10.189	3.580 16.510	1.00	24.19
		HETATM		0	нон	68	2.741	0.716 28.382	1.00	16.48
		HETATM	4101	0	нон	69	23.522	-4.323 13.943	1.00	27.48
	60	HETATM	4101	0	нон	70	17.133	8.133 19.686	1.00	32.24
		HETATM	4102	0	нон	70	-0.295		1.00	33.42
		HETATM					9.519	10.828 34.842	1.00	29.38
		DEIMIN	4104	9	нон	72	7.317	10.020 34.042	1.00	49.30

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	5	HETATM	4105	0	нон	73	6.291	14.878 29.070	1.00	28.21
		HETATM	4106	0	нон	74	-1.721	6.480 13.381	1.00	49,91
		HETATM	4107	0	нон	75	10.091	-15.427 26.194	1.00	24,17
		HETATM	4108	0	HOH	76	5.029	7.461 17.718	1.00	18.91
		HETATM	4109	0	нон	77	3.758	2.086 14.306	1.00	28.28
	10	HETATM	4110	0	нон	78	-1.390		1.00	41.11
	••	HETATM	4111	0	нон	79	12.703	-8.687 32.119	1.00	36.21
				_		•				
		HETATM	4112	0	нон	80	22.270	-6.451 14.844	1.00	33.21
		HETATM	4113	0	нон	81	1.458	4.605 34.026	1.00	23.59
		HETATM	4114	0	HOH	82	1.759	-2.158 30.374	1.00	28.78
	15	HETATM	4115	0	HOH	83	6.153	-21.372 23.188	1.00	31.14
		HETATM	4116	0	HOH	84	36.525	0.463 20.792	1.00	45.26
		HETATM	4117	0	HOH	85	13.832	9.696 13.792	1.00	33.12
		HETATM	4118	0	нон	86	31.166	6.635 24.924	1.00	35.19
		HETATM	4119	Ō	нон	87	8.844		1.00	48.80
	20	HETATM	4120	o	нон	88	9.581	-6.956 34.136	1.00	42.95
	2.0									
		HETATM	4121	0	нон	89	-1.563	15.887 27.596	1.00	39.35
		HETATM	4122	0	нон	90	-5.286	10.345 32.757	1.00	35.20
		HETATM	4123	O	нон	91	15.035	0.607 13.339	1.00	29.53
		HETATM	4124	0	HOH	92	-10.984	-1.500 30,272	1.00	29.84
į ma	25	HETATM	4125	0	нон	93	-7.239	-0.271 -1.207	1.00	48.98
Ď		HETATM	4126	0	нон	94	18.022	-4.902 34.286	1.00	35.28
ū		HETATM	4127	0	нон	95	29.347	-6.319 19.920	1.00	37.20
ΙŪ		HETATM	4128	Ō	нон	96		-19.369 20.945	1.00	30.23
Ü		HETATM	4129	0	нон	97	31.496	4.614 18.716	1.00	
:	30									38.79
	30	HETATM	4130	0	нон	98	26.567	9.759 25.629	1.00	29.72
 =		HETATM	4131	0	НОН	99	2.848	14.531 1.134	1,60	38.08
	•	HETATM	4132	0	нон	100	-9.373	5.699 -7.953	1.00	53.23
	•	HETATM	4133	0	нон	101	-10.137	-0.553 -6.742	1.00	47.72
E) A rest		HETATM	4134	0	нон	102	10.558	-10.363 15.403	1.00	40.97
	35	HETATM	4135	0	нон	103	21.079	17.166 18.929	1.00	32.40
لدا		HETATM	4136	0	нон	104	25.810	-5.921 22.506	1.00	37.69
IJ		HETATM	4137	Ō	нон	105	22.493	-1.311 34.465	1.00	49.94
		HETATM	4138	o	нон	106	19.317	10.977 38.703	1.00	40.60
ō Q		HETATM	4139	Ö	нон	107	4.479		1.00	
ŧΩ	40									45.33
	40	HETATM	4140	0	нон	108	20.418	19.353 34.044	1.00	42.18
•		HETATM	4141	0	нон	109	-3.065	8.936 14.062	1.00	38.41
		HETATM	4142	0	нон	110	26,856	-4.674-10.940	1.00	55.67
		HETATM		0	нон	111	2.032	-6.387 5.614	1.00	42.23
		HETATM	4144	0	нон	112	0.601	0.228-17.268	1.00	40.57
	45	HETATM	4145	0	нон	113	4.903	13.488-14.050	1.00	47.72
		HETATM	4146	0	нон	114	3.986	16.140 -0.960	1.00	40.66
		HETATM	4147	0	нон	115		-19.561 2.741	1.00	40.76
		HETATM	4148	ō	нон	116	7.170	15.583 2,599	1.00	43.69
		HETATM	4149	0	нон	117	-1.966	10.606 3.572		52.63
	50								1.00	
	30	HETATM	4150	0	НОН	118	29.030	10.644 6.707	1.00	42.54
		HETATM	4151	0	нон	119	0.468	4.354 8.374	1.00	38.69
		HETATM	4152	0	нон	120	29.086	17.119 19.272	1.00	45.51
		HETATM	4153	0	нон	121	24.614	17.609 20.174	1.00	53.55
		HETATM	4154	0	HOH	122	-15.318	0.362 26.686	1.00	36.77
	55	HETATM	4155	0	нон	123	-3.857		1.00	39.64
		HETATM	4156	0	НОН	124	21.728	22.178 31.983	1.00	43.73
		HETATM	4157	ŏ	нон	125	31.650	-7.370 21.642	1.00	40.53
		HETATM	4158	0	нон	126		10.436 21.161		
							25.421		1.00	32.31
	60	HETATM	4159	0	нон	127	10.317	-9.457 12.998	1.00	37.77
	60	HETATM	4160	0	нон	128	22.723	14.887 15.427	1.00	47.90
		HETATM	4161	0	нон	129	6.702	9.556 37.596	1.00	47.81
		HETATM	4162	0	нон	130	27.987	13.557 7.167	1.00	41.15

5	HETATM	4163	0	нон	131	30.798	16.499 7.588	1.00	58.47
_	HETATM	4164	0	нон	132	10.071	-0.571-20.393	1.00	38.79
	HETATM	4165	0	нон	133	9.562	8.334-21.392	1,.00	36.80
	HETATM	4166	0	нон	134	6.712	6.058 8.822	1.00	37.43
•	HETATM	4167	0	нон	135	5.927	8.454 10.594	1.00	42.34
10	HETATM	4168	0	нон	136	4.472	6.306 10.973	1.00	37.35
	HETATM	4169	0	нон	137	6.792	7.721 7.051	1.00	47.23
	HETATM	4170	0	нон	138	24.513	11.582 33,724	1.00	45.55
	HETATM	4171	0	нон	139	-2.528	-20.361 12.354	1.00	52.13
	HETATM	4172	0	нон	140	-7.864	7.706 19.248	1.00	47.82
15	HETATM	4173	0	нон	141	11.577	-16.962 24.398	1.00	39.43
	HETATM	4174	0	нон	142	18.087	12.263 -5.507	1.00	33.36
	HETATM	4175	Ð	нон	143	-6.816	-14.190 10.674	1.00	51.32
	HETATM	4176	O	нон	144	-7.377	-16.701 33.528	1.00	57.11
	HETATM	4177	0	нон	145	-5.379	-20.107 32.689	1.00	43.01
20	HETATM	4178	O	нон	146	8.766	-7.947-16.274	1.00	49.96
	HETATM END	4179	0	нон	147	10.946	-7.937-18.142	1.00	55.67

5 Appendix 3

Atomic Coordinates for Human ERa Complexed With OHT

	10	CRYST1	58.2	42 58.	242	277.467	90.00	90.00	120.00	P 65	2 2 12
	10	ORIGX1	1 0	00000	0 00	0000	0.00000	0.00	000		
		ORIGX2		00000		0000	0.000000	0.06			
		ORIGX3		00000		0000	1.000000	0.00			
		SCALE1		17170		9913	0.000000	0.00			
	15	SCALE2		00000		.9826	0.000000	0.00			
		SCALE3		00000		0000	0.003604	0.00			
		ATOM	1	СВ	LEU	306	6.638	11.502			61.20
	20	ATOM	2	C	LEU	306	7.381	10.684			61.47
	20	MOTA	3	0	LEU	306	6.407	11.020			62.09
		MOTA	4	N	LEU	306	6.369	9.128			62.32
		MOTA	5	CA	LEU	306	7.232	10.330			61.30 60.52
		MOTA	6	N	ALA	307	8.609	10.605			
9 and	25	MOTA	7	CA	ALA	307	8.891 10.318	10.912			58.77 59.70
٥	23	ATOM	8 9	CB C	ALA ALA	307 307	8.692	12.393			57.5 1
ij		ATOM	9 10	0	ALA	307	8.451	12.770			57.64
ij		ATOM ATOM	11	Ŋ	LEU	308	8.789	13.228			55.82
1.4		ATOM	12	CA	LEU	308	8.638	14.668			56.62
4	30	ATOM	13	CB	LEU	308	9.298	15.402	•		57.48
- T	50	MOTA	14	CG	LEU	308	10.637	14.822			59.17
المحا		ATOM	15	CD1	LEU	308	10.474	14.189			60.38
™g ii		ATOM	16	CD2	LEU	308	11.694	15.920			58.46
		ATOM	17	C	LEU	308	7.190	15.130			56.51
لدا	35	ATOM	18	Ō	LEU	308	6.935	16.307			55.58
Ш		MOTA	19	N	SER	309	6.246	14.208			57.04
		ATOM	20	CA	SER	309	4.828	14.544			56.46
		ATOM	21	CB	SER	309	4.034	13.896			56.79
ū		ATOM	22	OG	SER	309	4.071	12.479	6.588	1.00	57.23
_	40	ATOM	23	C	SER	309	4.261	14.095	9.003	1.00	56.13
		ATOM	24	0	SER	309	3.166	14.507	9.398	1.00	55.17
		ATOM	25	N	LEU	310	5.016	13.257	9.706	1.00	54.31
		ATOM	26	CA	LEU	310	4.591	12.749			53.55
		ATOM	27	CB	LEU	310	5.651	11.811			54.40
	45	ATOM	28	CG	LEU	310	5.586	10.333			56.49
		MOTA	29	CD1	LEU	310	5.530	10.200			57.06
		ATOM	30	CD2	LEU	310	6.809	9.610			57.28
		MOTA	31	C	LEU	310	4.330	13.865			
		ATOM	32	0	LEU	310	4.993	14.905			53.17
	50	ATOM	33	N	THR	311	3.352	13.641			51.71
		ATOM	34	CA	THR	311	3.017	14.604			49.93
		ATOM	35	CB	THR	311	1.527	14.554			48.96
		ATOM	36	OG1	THR	311	1.242	13.311			47.20
	~ ~	MOTA	37	CG2	THR	311	0.666	14.688			50.99
	55	ATOM	38	C	THR	311	3.815	14.201			48.84
		ATOM	39	0	THR	311	4.371	13.103			46.66
		ATOM	40	N CP	ALA	312	3.857	15.078			48.76
		ATOM	41	CA	ALA	312	4.590	14.798			47.75
	60	ATOM ATOM	42 43	CB	ALA ALA	312 312	4.359 4.171	15.910 13.460			47.06 47.41
	5 5	ATOM	44	0	ALA	312	5.009	12.609			45.52
		AT ON	72 W	•	TH	316	5.009	12.003	10.202	4.00	~J.J6

	5	ATOM	45	N	ASP	313	2.868	13.275	18.143	1.00	47.58
		MOTA	46	CA	ASP	313	2.367	12.032	18.714	1.00	47.63
		ATOM	47	CB	ASP	313	0.848	12.100	18.879	1.00	51.96
		MOTA	48	CG	ASP	313	0.430	12.872	20.118	1.00	56.21
		ATOM	49	OD1	ASP	313	1.314	13.234	20.929	1.00	56.38
	10	ATOM	50	OD2	ASP	313	-0.785	13.117	20.282	1.00	59.15
	. •	ATOM	51	C	ASP	313	2.745	10.846	17.835	1.00	43.93
		MOTA	52	0	ASP	313	2.959	9.741	18.330	1.00	44.77
		ATOM	52 53	N	GLN	314	2.826	11.081	16.531	1.00	44.52
								10.028		1.00	
	15	ATOM	54	CA	GLN	314	3.182		15.588		44.73
	15	ATOM	55	CB	GLN	314	2.849	10.464	14.156	1.00	45.05
		ATOM	56	CG	GLN	314	1.534	9.886		1.00	48.47
		ATOM	57	CD	GLN	314	0.982	10.646	12.428	1.00	50.37
		ATOM	58	OE1	GLN	314	1.649	11.515	11.856	1.00	49.38
		ATOM	59	NE2	GLN	314	-0.248	10.318	12.043	1.00	51,74
	20	ATOM	60	С	GLN	314	4.673	9.722	15.707	1.00	43.26
		MOTA	61	0	GLN	314	5.100	8.580	15.555	1.00	43.93
		ATOM	62	N	MET	315	5.459	10.757	15.980	1.00	42.29
		ATOM	63	CA	MET	315	6.901	10.606	16.130	1.00	41.26
		ATOM	64	CB	MET	315	7.565	11,985	16.224	1.00	42.43
:ma	25	ATOM	65	CG	MET	315	9.082	11.939	16.356	1.00	42.34
		ATOM	66	SD	MET	315	9.906	11.190	14.925	1.00	46.22
Ď		ATOM	67	CE	MET	315	9.547	12.408	13.680	1.00	37.32
IU		ATOM	68	C	MET	315	7.218	9.791	17.379	1.00	38.89
Ø		ATOM	69	Ō	MET	315	8.002	8.841	17.335	1.00	40.02
	30	ATOM	70	N	VAL	316	6.599	10.165	18.491	1.00	37.65
		ATOM	71	CA	VAL	316	6.819	9.476	19.756	1.00	39.56
ļ.		ATOM	72	CB	VAL	316	6.023	10.136	20.897	1.00	39.22
120		ATOM	73	CG1	VAL	316	6.245	9.373	22.192	1.00	44.43
8)		ATOM	74	CG2	VAL	316	6.446	11.583	21.059	1.00	41.04
	35	ATOM	75	C	VAL	316	6.404	8.012	19.664	1.00	40.04
ليا	55		75 76	0	VAL	316	7:141	7.117	20.077	1.00	37.86
لنا		ATOM	70 77			317		7.767		1.00	
		ATOM		N	SER		5.215		19.127		41.90
		ATOM	78	CA	SER	317	4.733	6.400	18.997	1.00	41.68
ū	40	ATOM	79	CB	SER	317	3.311	6.402	18.415	1.00	43.85
1,000	40	ATOM	80	OG	SER	317	3.225	5.631	17.230	1.00	49.38
		ATOM	81	C	SER	317	5.696	5.601	18.114	1.00	39.72
		ATOM	82	0	SER	317	6.011	4.446	18.407	1.00	40.21
		ATOM	83	N	ALA	318	6.182	6.220	17.043	1.00	38.35
	4.5	ATOM	84	CA	ALA	318	7.114	5.540	16.153	1.00	36.96
	45	ATOM	85	CB	ALA	318	7.485	6.448	14.986	1.00	37.92
		ATOM	86	С	ALA	318	8.375	5.137	16.920	1.00	38.31
		ATOM	87	0	ALA	318	8.820	3.992	16.844	1.00	33.94
		ATOM	88	N	LEU	319	8.938	6.089	17.664	1.00	36.92
		ATOM	89	CA	LEU	319	10.161	5.854	18.438	1.00	38.56
	50	ATOM	90	CB	LEU	319	10.660	7.174	19.040	1.00	40.86
		ATOM	91	CG	LEU	319	11.136	8.264	18.071	1.00	41.25
		ATOM	92	CD1	LEU	319	11.714	9.440	18.857	1.00	44.30
		ATOM	93	CD2	LEU	319	12.182	7.693	17.140	1.00	42.61
		ATOM	94	С	LEU	319	9.965	4.826	19.549	1.00	38.33
	55	ATOM	95	0	LEU	319	10.779	3.916	19.729	1.00	33.91
		ATOM	96	N	LEU	320	8.879	4.982	20.297	1.00	37.39
		ATOM	97	CA	LEU	320	8.567	4.067	21.387	1.00	41.55
		ATOM	98	CB	LEU	320	7.239	4.467	22.049	1.00	38.47
		ATOM	99	CG	LEU	320	7.236	5.582	23.099	1.00	44.81
	60	ATOM	100	CD1	LEU	320	5.876	5.634	23.802	1.00	44.96
		ATOM	101	CD2	LEU	320	8.334	5.332	24.112	1.00	43.36
		ATOM	102	CDZ	TEU	320	8.466	2.642	20.843	1.00	41.11
		ATOM	102		TIEU	320	0.400	2.042	20.043	1.00	41.11

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	5	ATOM	103	0	LEU	320	8.971	1.697	21.443	1.00	41.87
		MOTA	104	N	ASP	321	7.812	2.504	19.696	1.00	43.94
		ATOM	105	CA	ASP	321	7.613	1.210	19.653	1.00	44.77
		ATOM	106	CB	ASP	321	6.669	1.372	17,860	1.00	48.39
		ATOM	107	CG	ASP	321	5.206	1.318	18.255	1.00	52.39
	10	ATOM	108	OD1	ASP	321	4.901	1.422	19.464	1.00	53.56
	10	ATOM	109	OD2	ASP	321	4.357	1.172	17.346	1.00	55.81
		MOTA	110	C	ASP	321	8.911	0.565	18.568	1.00	44.37
		ATOM	111	0	ASP	321	9.030	-0.661	18.533	1.00	44.67
		MOTA	112	N	ALA	322	9.878	1.395	18.193	1.00	40.75
	15	MOTA	113	CA	ALA	322	11.153	0.905	17.686	1.00	37.81
		ATOM	114	CB	ALA	322	11.772	1.954	16.776	1.00	38.07
		ATOM	115	С	ALA	322	12.148	0.513	18.769	1.00	35.52
		MOTA	116	0	ALA	322	13.219	-0.020	18.473	1.00	36.11
		ATOM	117	N	GLU	323	11.799	0.768	20.022	1.00	35.61
	20							0.460		1.00	
	40	ATOM	118	CA	GLU	323	12.704		21.117		36.39
		ATOM	119	CB	GLU	323	12.042	0.768	22.459	1.00	35.09
		MOTA	120	CG	GLU	323	12.209	2.210	22.899	1.00	37.93
		ATOM	121	CD	GLU	323	13.657	2.569	23.200	1.00	37.29
		ATOM	122	OE1	GLU	323	14.313	3.173	22.326	1.00	34.21
	25	MOTA	123	OE2	GLU	323	14.134	2.245	24.309	1.00	38.02
		ATOM	124	С	GLU	323	13.205	-0.978	21.110	1.00	38.01
۱ <u>D</u>		ATOM	125	0	GLU	323	12.425	-1.931	20.999	1.00	38.37
IU.		ATOM	126	N	PRO	324	14.527	-1.151	21.225	1.00	36.03
Ü										1.00	
<u> </u> =	20	ATOM	127	CD	PRO	324	15.522	-0.069	21.345		36.69
4	30	ATOM	128	CA	PRO	324	15.158	-2.474	21.240	1.00	36.42
		ATOM	129	CB	PRO	324	16.633	-2.166	21.003	1.00	35.75
1		ATOM	130	CG	PRO	324	16.811	-0.807	21.610	1.00	35.46
		MOTA	131	C	PRO	324	14.940	-3,162	22.583	1.00	35.75
ii eta		MOTA	132	0	PRO	324	14.616	-2.517	23.580	1.00	34.97
	35	MOTA	133	N	PRO	325	15.134	-4.485	22.631	1,00	35.24
J,J		ATOM	134	CD	PRO	325	15.530	-5.386	21.534	1.00	37.02
į, į		ATOM	135	CA	PRO	325	14.942	-5.208	23.889	1.00	34.65
		ATOM	136	CB	PRO	325	14.753	-6.652	23.439	1.00	35.83
Ð		ATOM	137	CG	PRO	325	15.589	-6.743	22.200	1.00	34.88
ā	40										
.03	40	ATOM	138	C	PRO	325	16.132	-5.070	24.824	1.00	34.51
		ATOM	139	0	PRO	325	17.237	-4.723	24.399	1.00	29.92
		ATOM	140	N	ILE	326	15.899	-5.322	26.106	1.00	33.62
		MOTA	141	CA	ILE	326	16.975	-5.265	27.075	1.00	35.02
		MOTA	142	CB	ILE	326	16.458	-4.891	28.473	1.00	38.11
	45	ATOM	143	CG2	ILE	326	17.557	-5.110	29.504	1.00	38.70
		MOTA	144	CG1	ILE	326	15.987	-3.431	28.466	1,00	40.48
		ATOM	145	CD1	ILE	326	16.035	-2.747	29.815	1.00	42.96
		ATOM	146	C	ILE	326	17.567	-6.668	27.103	1.00	34.14
		ATOM		0				-7.634		1.00	34.88
	50		147		ILE	326	16.875		27.427		
	50	ATOM	148	N	LEU	327	18.840	-6.784	26.745	1.00	29.64
		MOTA	149	CA	LEU	327	19.493	-8.083	26.716	1.00	29.54
		ATOM	150	CB	LEU	327	20.528	-8.135	25.587	1.00	27.76
		ATOM	151	CG	LEU	327	19.978	-7.800	24.196	1.00	29.02
		ATOM	152	CD1	LEU	327	21.068	-7.993	23.139	1.00	28.76
	55	ATOM	153	CD2	LEU	327	18.775	-8.688	23.891	1.00	31.26
		ATOM	154	c	LEU	327	20.156	-8.438	28.030	1,00	31.21
		ATOM	155	0	LEU	327	20.130	-7.578	28.891	1.00	30.12
		MOTA	156	N	TYR	328	20.445	-9.725	28.181	1.00	30.99
	60	MOTA	157	CA	TYR	328	21.087	-10.229	29.381	1.00	30.95
	60	MOTA	158	CB	TYR	328	20.409	-11.520	29.842	1.00	33.38
		ATOM	159	CG	TYR	328	19.194	-11.272	30.686	1.00	33.05
		MOTA	160	CD1	TYR	328	19.253	-11.398	32.071	1.00	31.92
							224	•			

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	5	MOTA	161	CE1	TYR	328	18.152 -11.114	32.864	1.00	36.01
		MOTA	162	CD2	TYR	328	17.996 -10.862	30.110	1.00	36.05
		ATOM	163	CE2	TYR	328	16.880 -10.574	30.899	1.00	37.27
		MOTA	164	CZ	TYR	328	16.973 -10.702	32.274	1.00	37.66
		MOTA	165	OH	TYR	328	15.896 -10.397	33.071	1.00	44.66
	10	MOTA	166	C	TYR	328	22.529 -10.520	29.067	1.00	33.66
	••	ATOM	167	Ö	TYR	328	22.884 -10.744	27.910	1.00	34.78
		ATOM	168	N	SER	329	23.359 -10.496	30.103	1.00	33.97
		MOTA	169	CA	SER	329	24.767 -10.800	29.962	1.00	37.29
		MOTA	170	CB	SER	329	25.526 -10.342	31.204	1,00	36.51
	15	ATOM	171	OG	SER	329	26.787 -10.965	31.282	1.00	37.13
		MOTA	172	С	SER	329	24.835 -12.317	29.832	1.00	40.43
		ATOM	173	0	SER	329	23.980 -13.028	30.363	1.00	40.11
		MOTA	174	N	GLU	330	25.845 ~12.811	29.128	1.00	41.40
		ATOM	175	CA	GLU	330	25.992 -14.242	28.928	1.00	47.43
	20	MOTA	176	CB	GLU	330	26.423 -14.524	27.484	1,00	48.64
	20	ATOM	177	CG	GLU	330	25.278 -14.870	26.542	1.00	50.20
		MOTA	178	CD	GLU	330	25.765 -15.405	25.198	1.00	53.25
		ATOM	179	OE1	GLU	330	25.909 -16.640	25.062	1.00	53.27
		ATOM	180	OE2	GLU	330	26.004 -14.590	24.280	1.00	51.80
i and	25	MOTA	181	C	GLU	330	26.999 -14.852	29.893	1.00	49.67
		ATOM	182	0	GLU	330	28.207 -14.741	29.696	1.00	50.11
٠.D		ATOM	183	N	TYR	331	26.498 ~15.493	30.942	1.00	53.62
IU		MOTA	184	CA	TYR	331	27.373 -16.130	31.921	1,00	58.16
Œ		ATOM	185	CB	TYR	331	28.092 -15.078	32.774	1.00	59.55
	30	ATOM	186	CG	TYR	331	27.239 -14.460	33.860	1.00	63.08
·	50									
14		ATOM	187	CD1	TYR	331	26.656 -13.205	33.682	1.00	64.50
		ATOM	188	CE1	TYR	331	25.864 -12.630	34.676	1.00	65.99
ii		ATOM	189	CD2	TYR	331	27.010 -15.128	35,065	1.00	63.52
		MOTA	190	CE2	TYR	331	26.219 -14.563	36.066	1.00	65.60
ind I.I	35	ATOM	191	CZ	TYR	331	25.648 -13.314	35.864	1.00	67.20
لدا		MOTA	192	OH	TYR	331	24.855 -12.753	36.839	1.00	67.40
IJ		ATOM	193	C	TYR	331	26.603 -17.080	32.823	1.00	59.05
		ATOM	194	0	TYR	331	25.393 -16.942	33.002	1.00	59.22
ı		ATOM	195	N	ASP	332	27.320 -18.045	33.387	1.00	61.62
۱Ď	40	ATOM	196	CA	ASP	332	26.719 -19.026	34.281	1.00	64.20
	, 0	ATOM	197	CB	ASP	332	27.681 -20.194	34.500	1.00	65.99
		ATOM	198	CG	ASP	332	26.961 -21.516	34.648	1.00	68.11
										69.54
		ATOM	199	OD1	ASP	332	27.575 -22.564	34.351	1.00	
	4.5	ATOM	200	OD2	ASP	332	25.781 -21.505	35.060	1.00	67.40
	45	ATOM	201	C	ASP	332	26.393 -18.371	35.619	1.00	63.33
		MOTA	202	0	ASP	332	27.292 -18.073	36.406	1.00	63.90
		ATOM	203	N	PRO	333	25.096 -18.148	35.896	1.00	63.64
		ATOM	204	CD	PRO	333	23.945 -18.509	35.053	1.00	64.35
		ATOM	205	CA	PRO	333	24.677 -17.521	37.154	1.00	63.52
	50	ATOM	206	СВ	PRO	333	23.165 -17.333	36.993	1.00	63.53
	• •	ATOM	207	CG	PRO	333	22.866 -17.611	35.556	1.00	64.15
		ATOM	208	C	PRO	333	25.010 -18.419	38.332	1.00	63.29
		ATOM							1.00	
			209	0	PRO	333	25.129 -17.964	39.468		63.28
	e e	ATOM	210	N	THR	334	25.160 -19.704	38.037	1.00	64.26
	55	ATOM	211	CA	THR	334	25.475 -20.697	39.050	1.00	66.09
		ATOM	212	CB	THR	334	24.929 -22.080	38.645	1.00	66.90
		ATOM	213	OG1	THR	334	25.571 -22.513	37.439	1.00	68.06
		ATOM	214	CG2	THR	334	23.423 -22.012	38.411	1.00	67.57
		ATOM	215	С	THR	334	26.982 -20.804	39.269	1.00	65.67
	60	ATOM	216	0	THR	334	27.432 -21.323	40.289	1.00	64.77
		ATOM	217	N	ARG	335	27.759 -20.308	38.313	1.00	65.65
		ATOM	218	CA	ARG	335	29.214 -20.360	38.421	1.00	66.60
		VIII	~	<u></u>	-410	د د د	27.224 20.300	JU. 461	00	55.50

	5	MOTA	219	CB	ARG	335	29.835 -20.500	37.030	1.00	66.74
		ATOM	220	c	ARG	335	29.757 -19.113	39.123	1.00	67.09
		ATOM	221	ō	ARG	335	29,100 -18.07		1.00	67.31
		ATOM	222	N	PRO	336	30.968 -19.20		1.00	67.62
									1.00	67.30
		ATOM	223	CD	PRO	336				
	10	ATOM	224	CA	PRO	336	31.601 -18.086		1.00	67.42
		ATOM	225	CB	PRO	336	32.982 -18.621	40.783	1.00	66.43
		ATOM	226	CG	PRO	336	32.829 -20.09	40.779	1.00	67.52
		ATOM	227	С	PRO	336	31.701 -16.828	39.561	1.00	68.26
		ATOM	228	0	PRO	336	31.996 -16.899		1.00	69.64
	15	MOTA	229	N	PHE	337	31.460 -15.683		1.00	69.49
	10									71.39
		ATOM	230	CA	PHE	337	31.529 -14.408		1.00	
		MOTA	231	CB	PHE	337	30.818 -13.323		1.00	72.31
		ATOM	232	CG	PHE	337	31.219 -11.924		1.00	73.21
		MOTA	233	CD1	PHE	337	30.632 -11.287	38.833	1.00	72.82
	20	ATOM	234	CD2	PHE	337	32.191 -11.249	40.653	1.00	73.43
		ATOM	235	CE1	PHE	337	31.006 -9.993	38.479	1.00	73.28
		ATOM	236	CE2	PHE	337	32.573 -9.956		1.00	73.00
		ATOM	237	CZ	PHE	337	31.980 -9.323		1.00	72.90
	~~	MOTA	238	C	PHE	337	32.985 -14.013		1.00	71.38
	25	MOTA	239	0	PHE	337	33.336 -13.487		1.00	71.56
1 mm2*		ATOM	240	N	SER	338	33.825 -14.273	40.241	1.00	71.53
Q		MOTA	241	CA	SER	338	35.248 -13.947	40.172	1.00	70.98
IJ		ATOM	242	CB	SER	338	35.957 -14.487	41.414	1.00	70.43
(C)		ATOM	243	OG	SER	338	35.547 -15.818		1.00	69.59
	30	ATOM	244	c	SER	338	35.931 -14.504		1.00	71.20
٠	50	ATOM			SER	338	36.951 -13.972		1.00	71.35
14			245	0						
į,		MOTA	246	N	GLU	339	35.368 -15.573		1.00	70.20
		MOTA	247	CA	GLU	339	35.930 -16.215		1.00	69.48
ii .com		ATOM	248	CB	GLU	339	35.279 -17.585	36.971	1.00	71.07
(m)	35	ATOM.	249	CG	GLU	339	35.996 -18.740	37.656	1.00	72.60
إيا		ATOM	250	CD	GLU	339	35.382 -20.089	37.318	1.00	74.26
لِبا		MOTA	251	OE1	GLU	339	34.786 -20.220	36.227	1.00	73.51
اللا		ATOM	252	OE2	GLU	339	35.496 -21.020		1.00	76.44
		ATOM	253	c	GLU	339	35.770 -15.385		1,00	68.15
ıÖ	40	ATOM	254	0	GLU	339	36.722 -15.216		1.00	68.99
• 65	40									
		ATOM	255	N	ALA	340	34.562 -14.874		1.00	64.41
		ATOM	256	CA	ALA	340	34.246 -14.083		1.00	60.69
		ATOM	257	ÇB	ALA	340	32.767 -13.709		1.00	61.17
		MOTA	258	C	ALA	340	35.096 -12.824	34.326	1.00	57.00
	45	MOTA	259	0	ALA	340	35.634 -12.270	35.287	1.00	57.46
		ATOM	260	N	SER	341	35.215 -12.388	33.076	1.00	52.15
		ATOM	261	CA	SER	341	35.972 -11,188		1.00	46.53
		ATOM	262	CB	SER	341	36.839 -11.439		1.00	48.64
	50	ATOM	263	og	SER	341	37.184 -10.226		1.00	46.48
	50	MOTA	264	С	SER	341	34.957 -10.087	· · · · · ·	1.00	43.52
		MOTA	265	0	SER	341	34.090 -10.248		1.00	39.92
		ATOM	266	N	MET	342	35.052 -8.978	33.166	1.00	41.24
		ATOM	267	CA	MET	342	34.121 -7.875	32.960	1.00	42.46
		MOTA	268	CB	MET	342	34.449 -6.723	33.912	1.00	45.61
	55	ATOM	269	CG	MET	342	33.228 -6.089		1.00	52.39
		ATOM	270	SD	MET	342	31.791 -7.201		1.00	57.92
		ATOM	271	CE		342	31.999 -7.881		1.00	56.18
					MET					
		ATOM	272	C	MET	342	34.124 -7.365		1.00	40.22
		ATOM	273	0	MET	342	33.063 -7.121		1.00	39.23
	60	ATOM	274	N	MET	343	35.307 -7.204		1.00	38.72
•		MOTA	275	CA	MET	343	35.395 -6.708	29.558	1.00	38.50
		ATOM	276	CB	MET	343	36.838 -6.318	29.216	1.00	41.15

5	MOTA	277	CG	MET	343	37.022	-5.749	27.804	1.00	40.31
	atom	278	SD	MET	343	36.032	-4.260	27.427	1.00	45.23
	ATOM	279	CE	MET	343	36.113	-3.358	28.987	1.00	40.45
	ATOM	280	C	MET	343	34.880	-7.741	28.561	1.00	35.36
	ATOM	281	0	MET	343	34.368	-7.384	27.501	1.00	35.51
10	ATOM	282	N	GLY	344	35.017	-9.020	28.902	1.00	35.53
• •	ATOM	283	CA	GLY	344	34.533	-10.072	28.024	1.00	33.41
	ATOM	284	C	GLY	344	33.015	-10.063	28.047	1.00	31.74
	ATOM	285	0	GLY	344	32.359		27.019	1.00	29.58
	ATOM	286	И		345	32.459	-9.860			32.89
16				LEU				29.238	1.00	
15	ATOM	287	CA	LEU	345	31.011	-9.804	29.415	1.00	34.95
	ATOM	288	CB	LEU	345	30.665	-9.631	30.902	1.00	37.56
	MOTA	289	CG	LEU	345	30.942		31.883	1.00	43.03
	MOTA	290	CD1	LEU	345	30.537		33.297	1.00	41.57
	ATOM	291	CD2	LEU	345	30.164		31.449	1.00	42.80
20	ATOM	292	C	LEU	345	30.430	-8.614	28.633	1.00	33.71
	ATOM	293	0	LEU	345	29.479	-8.757	27.868	1.00	30.29
	MOTA	294	N	LEU	346	31.021	-7.443	28.843	1.00	30.20
	ATOM	295	CA	LEU	346	30.569	-6.217	28.193	1.00	32.00
	MOTA	296	CB	LEU	346	31.317	-5.016	28.771	1.00	28,16
25	ATOM	297	CG	LEU	346	31.091	-4.767	30,269	1.00	29.84
	ATOM	298	CD1	LEU	346	31.815	-3.498	30.668	1.00	29.98
!	ATOM	299	CD2	LEU	346	29.614	-4.644	30.581	1.00	33.97
i	ATOM	300	C	LEU	346	30.732	-6.250	26.682	1.00	30.70
	ATOM	301	0	LEU	346	29.869	-5.765	25.955	1.00	29.13
30	ATOM	302	N	THR	347	31.839	-6.816	26.212	1.00	30.47
	ATOM	303	CA	THR	347	32.086	-6.911	24.781	1.00	30.93
	ATOM	304	CB	THR	347	33.472	-7.501	24.497	1.00	29.97
	ATOM	305	OG1	THR	347	34.481	-6.604	24.982	1.00	35.40
	ATOM	306	CG2	THR	347	33.666	-7.707	23.004	1.00	33.58
35	ATOM	307	C	THR	347	31.036	-7.804	24.122	1.00	31.97
33	MOTA	308	0	THR	347	30.516	-7.486	23.049	1.00	30.75
	ATOM	309	Ŋ	ASN	348	30.737	-8.926	24.768	1.00	29.31
	ATOM									
		310	CA	ASN	348	29.757	-9.868	24.242	1.00	32.63
40	ATOM	311	CB	ASN	348	29.767	-11.161	25.065	1.00	31.64
40	MOTA	312	CG	ASN	348	28.646	-12.117	24.662	1.00	39.14
•	ATOM	313	OD1	ASN	348	27.549	-12.078	25.220	1,00	41.91
	ATOM	314	ND2	asn	348	28.920	-12.970	23.683	1.00	42.05
	ATOM	315	C	asn	348	28.361	-9.251	24.262	1.00	29.02
45	ATOM	316	0	asn	348	27.558	-9.477	23.353	1.00	32.76
45	ATOM	317	N	LEU	349	28.078	-8.467	25.298	1.00	28.74
	ATOM	318	CA	LEU	349	26.782	-7.811	25.421	1.00	28.58
	ATOM	319	CB	LEU	349	26.650	-7.148	26.795	1.00	26.56
	ATOM	320	ÇG	LEU	349	25.376	-6.328	27.050	1.00	33.67
	MOTA	321	CD1	LEU	349	24.140	-7.199	26.840	1.00	28.82
50	ATOM	322	CD2	LEU	349	25.392	-5.779	28.471	1.00	33.11
	MOTA	323	C	LEU	349	26.638	-6.762	24.319	1.00	28.07
	MOTA	324	0	LEU	349	25.616	-6.703	23.629	1.00	25.22
	ATOM	325	N	ALA	350	27.675	-5.941	24.157	1.00	28.50
	ATOM	326	CA	ALA	350	27.668	-4.886	23.148	1.00	28.46
55	ATOM	327	СВ	ALA	350	28.972	-4.094	23.209	1.00	28.12
	ATOM	328	C	ALA	350	27.468	-5.461	21.750	1.00	28.75
	ATOM	329	ō	ALA	350	26.649	-4.958	20.983	1.00	30.90
	ATOM	330	N	ASP	351	28.213	-6.509	21.420	1.00	27.20
	ATOM	331	CA	ASP	351	28.093	-7.143	20.112	1.00	29.75
60	ATOM	332	CB	ASP	351	29.036	-8.345	20.010	1.00	34.16
	ATOM	333	CG	ASP	351	30.498	-7.940	19.978	1.00	37.50
	ATOM	334	OD1	ASP	351	31.354	-8.831	20.148	1.00	37.55
	~10h	224		ASE	3 3 I	31.334	-0.63I	20.140	1.00	31.35

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	5	ATOM	335	OD2	ASP	351	30.789	-6.738	19.784	1.00	35.50
		ATOM	336	C	asp	351	26.661	-7.600	19.813	1.00	30.52
		ATOM	337	0	ASP	351	26.193	-7,458	18.687	1.00	27.77
		MOTA	338	N	ARG	352	25.968	-8.150	20.811	1.00	27.18
		ATOM	339	CA	ARG	352	24.593	-8.602	20.605	1.00	26.21
	10	ATOM	340	CB	ARG	352	24.148	-9.534	21.752	1.00	26.52
	. •	ATOM	341	CG	ARG	352		-10.991	21.532	1.00	31.03
		ATOM	342	CD	ARG	352		-11.911	22.666	1.00	29.80
		ATOM	343	NE	ARG	352 352		-11.675	23.879	1.00	30.44
	1.5	MOTA	344	CZ	ARG	352		-11.363	25.054	1.00	31.68
	15	ATOM	345	NH1	ARG	352		-11.251	25.177	1.00	31.18
		MOTA	346	NH2	ARG	352		-11.148	26.104	1.00	32.03
		ATOM	347	C	ARG	352	23.642	-7.411	20.502	1.00	27.16
		MOTA	348	O	ARG	352	22.702	-7.426	19.708	1.00	26.65
		ATOM	349	N	GLU	353	23.896	-6.370	21.291	1.00	24,30
	20	ATOM	350	CA	GLU	353	23.045	-5.178	21.261	1.00	26.39
		ATOM	351	CB	GLU	353	23.461	-4.204	22.365	1.00	24.91
		ATOM	352	CG	GLU	353	23.147	-4.669	23.771	1.00	27.93
	•	ATOM	353	CD	GLU	353	23.425	-3.587	24.795	1.00	30.71
		ATOM	354	OE1	GLU	353	24.564	-3,534	25.304	1.00	30.09
2 8655.	25	ATOM	355	OE2	GLU	353	22.506	-2.789	25.085	1.00	30.53
		ATOM	356	C	GLU	353	23.131	-4.456	19.920	1.00	24.27
Ď		ATOM	357	0	GLU	353	22.169	-3.826	19,467	1.00	28.71
IV		ATOM	358	N	LEU	354	24.296	-4.540	19.293	1.00	26.61
ID.	•	ATOM	359	CA	LEU	354	24.522	-3.872	18.017	1.00	26.62
4	30								17.543		26.36
10	30	ATOM	360	CB	LEU	354	25.952	~4.121		1.00	
4		ATOM	361	CG	LEU	354	26.372	-3.257	16.351	1.00	29.24
1		ATOM	362	CD1	LEU	354	26.243	-1.774	16.722	1.00	26.59
3 !		ATOM	363	CD2	LEU	354	27.794	-3.607	15.962	1.00	28.88
		MOTA	364	C	LEU	354	23.559	-4.300	16.926	1.00	27.72
	35	MOTA	365	0	LEU	354	23.074	-3.475	16.152	1.00	24.00
Į,		MOTA	366	N	VAL	355	23.291	-5.598	16.854	1.00	28.82
Õ		MOTA	367	CA	VAL	355	22.386	-6.125	15.844	1.00	29.45
		MOTA	368	CB	VAL	355	22.259	-7.655	15.975	1.00	31.76
Û		ATOM	369	CG1	VAL	355	21.423	-8.205	14.834	1.00	33.55
Ü	40	ATOM	370	CG2	VAL	355	23.649	-8.282	15.998	1.00	31.36
		ATOM	371	C	VAL	355	21.020	-5.499	16.035	1.00	27.71
		MOTA	372	0	VAL	355	20.382	-5,039	15.080	1.00	29.61
		ATOM	373	N	HIS	356	20.580	-5.473	17.288	1.00	27.76
		ATOM	374	CA	HIS	356	19.291	-4.906	17.627	1.00	28.35
	45	ATOM	375	CB	HIS	356	18.936	-5.231	19.079	1.00	
	-	ATOM	376	CG ·	HIS	356	18.602	-6.675	19.307	1.00	35.93
		ATOM	377	CD2	HIS	356	19.352	-7.700	19.779	1.00	33,95
		MOTA	378	ND1	HIS	356	17.363	-7.208	19.018	1.00	36.62
		ATOM	379	CE1	HIS	356	17.364	-8.499	19.304	1.00	33.33
	50		380	NE2		356	18.559	-8.823	19.767	1.00	32.16
	50	ATOM			HIS						
		ATOM	381	C	HIS	356	19.300	-3.398	17.412	1.00	28.25
		MOTA	382	0	HIS	356	18.272	-2.812	17.100	1.00	28.99
		MOTA	383	N	MET	357	20.457	-2.765	17.574	1.00	25.31
	~ ~	ATOM	384	CA	MET	357	20.526	-1.322	17.369	1.00	24.63
	55	ATOM	385	СВ	MET	357	21.902	-0.789	17.766	1.00	23.61
		MOTA	386	CG	MET	357	22.011	0.736	17.699	1.00	24.66
		MOTA	387	SD	MET	357	23.732	1.290	17.859	1.00	27.30
		ATOM	388	CE	MET	357	24.140	0.672	19.514	1.00	23.62
		ATOM	389	Ċ	MET	357	20.256	-1.011	15.898	1.00	24.83
	60	ATOM	390	0	MET	357	19.619	-0.003	15.569	1.00	26.78
		ATOM	391	N	ILE	358	20.757	-1.874	15.020	1.00	26.25
		ATOM	392	CA	ILE	358	20.553	-1.721	13.576	1.00	30.33
							220				

	5	ATOM	451	C	VAL	364	13.360	6.591	12.171	1.00	33.19
		MOTA	452	0	VAL	364	14.028	6.531	11.146	1.00	33.04
		ATOM	453	N	PRO	365	12.225	7.310	12.234	1.00	34.69
		ATOM	454	CD	PRO	365	11.359	7.492	13.413	1.00	34.19
		ATOM	455	CA	PRO	365	11.724	8.050	11.069	1.00	35.96
	10	ATOM	456	CB	PRO	365	10.608	8.918	11.645	1.00	36.59
	10										
		ATOM	457	CG	PRO	365	10.135	8.157	12.842	1.00	39.59
		ATOM	458	C	PRO	365	12.756	8.878	10.321	1.00	37.19
		MOTA	459	0	PRO	365	13.430	9.726	10.907	1.00	40.29
		MOTA	460	N	GLY	366	12.878	8.624	9.023	1.00	34.78
	15	ATOM	461	CA	GLY	366	13.816	9.371	8.212	1.00	33.54
		ATOM	462	C	GLY	366	15.168	8.722	8.007	1.00	34.26
		MOTA	463	0	GLY	366	15.858	9.035	7.034	1.00	37.15
		ATOM	464	N	PHE	367	15.554	7.814	8.901	1.00	33,13
		MOTA	465	CA	PHE	367	16.860	7.164	8.787	1.00	32.04
	20	ATOM	466	CB	PHE	367	17.138	6.291	10.016	1.00	30.22
	20								10.080	1.00	
		ATOM	467	CG	PHE	367	18.544	5.773			30.60
		ATOM	468	CD1	PHE	367	18.827	4.446	9.751	1.00	31.94
		MOTA	469	CD2	PHE	367	19.589	6.601	10.485	1.00	29.20
		ATOM	470	CE1	PHE	367	20.133	3.950	9.828	1.00	28.30
	25	MOTA	471	CE2	PHE	367	20.896	6.122	10.568	1.00	28.12
		ATOM	472	CZ	PHE	367	21.171	4.791	10.240	1.00	25.41
Ð		ATOM	473	С	PHE	367	17.033	6.333	7.524	1,00	31.46
IU		ATOM	474	0	PHE	367	18.073	6.405	6.883	1.00	32.30
Ø		ATOM	475	N	VAL	368	16,027	5.541	7.165	1,00	35.20
œ.	30	ATOM	476	CA	VAL	368	16.123	4.718	5.959	1.00	38.98
4	50	ATOM	477	СВ	VAL	368	15.076	3.584	5.945	1.00	40.61
طعا					VAL	368		2.447	6.843	1.00	41.48
٠.٠		ATOM	478	CG1			15.543				
āi		ATOM	479	CG2	VAL	368	13.717	4.113	6.390	1.00	41.60
	• •	MOTA	480	С	VAL	368	15.965	5.523	4.673	1.00	40.06
i,J	35	MOTA	481	0	VAL	368	16.156	4.992	3.579	1.00	41.66
ľ.Ú		ATOM	482	N	ASP	369	15.608	6.798	4.798	1.00	38.65
:D		MOTA	483	CA	ASP	369	15.465	7.646	3.621	1.00	37.15
		MOTA	484	CB	ASP	369	14.700	8.929	3.954	1.00	39.89
'n		MOTA	485	CG	ASP	369	13.254	8.671	4.302	1.00	45.59
٠Đ	40	MOTA	486	OD1	ASP	369	12.686	7.672	3.806	1.00	46.34
		ATOM	487	OD2	ASP	369	12.681	9.472	5.074	1.00	49.13
		ATOM	488	C	ASP	369	16.855	8.010	3.136 ·		34.91
		ATOM	489	Õ	ASP	369	17.038	8.431	1.995	1.00	34.25
		ATOM	490	N	LEU	370	17.838	7.841	4.016		
	45	ATOM	491	CA	LEU	370	19.229	8.153	3.705	1.00	28.08
	73						20.020				
		ATOM	492	CB	LEU	370		8.339	5.003	1.00	28.81
		ATOM	493	CG	LEU	370	19.523	9.395	6.000	1.00	28.74
		ATOM	494	CD1	LEU	370	20.315	9.275	7.299	1.00	30.81
		MOTA	495	CD2	LEU	370	19.693	10.792	5.404	1.00	29.77
	50	MOTA	496	C	LEU	370	19.884	7.043	2,893	1.00	31.25
		MOTA	497	0	LEU	370	19.341	5.943	2.784	1.00	31.78
		ATOM	498	N	THR	371	21.052	7.333	2.331	1.00	28.86
		ATOM	499	CA	THR	371	21.793	6.336	1.569	1.00	32.90
		ATOM	500	CB	THR	371	22.979	6.944	0.818	1.00	33.44
	55	ATOM	501	OG1	THR	371	23.880	7.523	1.766	1.00	34.59
		ATOM	502	CG2	THR	371	22.514	8.002	-0.178	1.00	32.63
•								5.315		1.00	35.31
		ATOM	503	C	THR	371	22.373		2.539		
		ATOM	504	0	THR	371	22.536	5.591	3.733	1.00	31.27
	60	ATOM	505	N	LEU	372	22.702	4.141	2.015	1.00	34.34
	60	ATOM	506	CA	LEU	372	23.273	3.073	2.822	1.00	35.46
		MOTA	507	CB	LEU	372	23.518	1.841	1.944	1.00	37.73
		ATOM	508	CG	LEU	372	24.362	0.704	2.515	1.00	42.43

	٠ _						•				
	5	ATOM	509	CD1	LEU	372	23.690	0.145	3.757	1.00	45.60
		MOTA	510	CD2	LEU	372	24.534	-0.383	1.455	1.00	44,29
		MOTA	511	C	LEU	372	24.587	3.548	3.444	1.00	36.95
		MOTA	512	0	LEU	372	24,813	3.374	4.643	1,00	35.57
		MOTA	513	N	HIS	373	25.442	4.159	2.627	1.00	35.68
	10	ATOM	514	CA	HIS	373	26.729	4.656	3.099	1.00	36.60
		ATOM	515	CB	HIS	373	27.506	5.282	1.935	1.00	44.01
		ATOM	516	CG	HIS	373	28.538	6.280	2.360	1.00	50.69
		ATOM	517	CD2	HIS	373	29.857	6.138	2.636	1.00	54.69
		MOTA	518	ND1	HIS	373	28.246	7.613	2.561	1.00	53.77
	15	MOTA	519	CE1	HIS	373	29.339	8.248	2.945	1.00	57.09
		MOTA	520	NE2	HIS	373	30.331	7.376	2.999	1.00	57.23
		MOTA	521	C	HIS	373	26.575	5.669	4.244	1.00	36.22
								5.650			
		MOTA	522	0	HIS	373	27.350		5.201	1.00	33.05
		MOTA	523	N	ASP	374	25.580	6.549	4.148	1.00	32.03
	20	ATOM	524	CA	ASP	374	25.342	7.541	5.196	1.00	30.76
		ATOM	525	CB	ASP	374	24.354	8.603	4.713	1.00	30.12
		ATOM	526	CG	ASP	374	25.018	9.672	3.860	1.00	35.83
		ATOM	527	OD1	ASP	374	26.264	9.744	3.842	1.00	34.39
		MOTA	528	OD2	ASP	374	24.291	10.440	3.199	1.00	35.39
:==	25	ATOM	529	C	ASP	374	24.805	6.876	6.472	1.00	30.33
Q		ATOM	530	0	ASP	374	25.152	7.275	7.587	1.00	27.04
Ø	•	ATOM	531	N	GLN	375	23.944	5.877	6.309	1.00	25.71
ľ		ATOM	532	CA	GLN	375	23.403	5.157	7.454	1.00	26.68
110											
		MOTA	533	CB	GLN	375	22.424	4.077	6.993	1.00	29.70
- - -	30	MOTA	534	CG	GLN	375	21.101	4,616	6.484	1.00	29.16
		MOTA	535	CD	GLN	375	20.219	3.514	5.940	1.00	35.87
#		ATOM	536	OE1	GLN	375	20.155	2.426	6.510	1.00	30.97
المحا		ATOM	537	NE2	GLN	375	19.541	3.785	4.827	1.00	34.51
ŧ:					GLN		24.556	4.502	8.214	1.00	25.51
	2.5	MOTA	538	C		375					
لرا	35	MOTA	539	0	GLN	375	24.585	4.513	9.442	1.00	28.14
		ATOM	540	Ņ	VAL	376	25.504	3.938	7.475	1.00	26.62
لدا		ATOM	541	CA	VAL	376	26.659	3.281	8.071	1.00	29.24
		ATOM	542	CB	VAL	376	27.531	2.597	7.003	1.00	29.66
· []		ATOM	543	CG1	VAL	376	28.812	2.071	7.635	1.00	28.29
Û	40								6.341		
123	40	ATOM	544	CG2	VAL	376	26.745	1.469		1.00	29.90
		MOTA	545	С	VAL	376	27.526	4.285	8.821	1.00	30.87
		MOTA	546	0	VAL	376	27.953	4.029	9.948	1.00	30.09
		ATOM	547	N	HIS	377	27.785	5.428	8.191	1.00	28.05
		MOTA	548	CA	HIS	377	28,602	6.457	8.814	1.00	28.68
	45	ATOM	549	CB	HIS	377	28.792	7.639	7.864	1.00	30.26
	73										33.89
		ATOM	550	CG	HIS	377	29.508	8.791	8.488	1.00	
		MOTA	551	CD2	HIS	377	29.073	10.017	8.863	1.00	34.99
		ATOM	552	ND1	HIS	377	30.846	8.740	8.823	1.00	37.01
		ATOM	553	CE1	HIS	377	31.201	9.884	9.377	1.00	34.79
	50	ATOM	554	NE2	HIS	377	30.144	10.677	9.413	1.00	34.95
	50									1.00	
		ATOM	555	C	HIS	377	27.983	6.954	10.114		25.13
		MOTA	556	0	HIS	377	28.677	7.102	11.115	1.00	25.93
		ATOM	557	N	LEU	378	26.678	7.206	10.107	1.00	24.58
		ATOM	557	N	LEU						
	55	ATOM ATOM	557 558	N CA	LEU LEU	378	26.015	7.695	11.315	1.00	26.40
	55	ATOM ATOM ATOM	557 558 559	N CA CB	TEA TEA TEA	378 378	26.015 24.542	7.695 8.001	11.315 11.027	1.00	26.40 26.29
	55	ATOM ATOM ATOM ATOM	557 558 559 560	N CA CB CG	LEU LEU LEU	378 378 378	26.015 24.542 24.291	7.695 8.001 9.180	11.315 11.027 10.073	1.00 1.00 1.00	26.40 26.29 28.06
	55	ATOM ATOM ATOM ATOM	557 558 559 560 561	N CA CB CG CD1	LEU LEU LEU	378 378 378 378	26.015 24.542 24.291 22.778	7.695 8.001 9.180 9.353	11.315 11.027 10.073 9.869	1.00 1.00 1.00	26.40 26.29 28.06 27.66
	55	ATOM ATOM ATOM ATOM	557 558 559 560	N CA CB CG	LEU LEU LEU	378 378 378	26.015 24.542 24.291	7.695 8.001 9.180	11.315 11.027 10.073	1.00 1.00 1.00 1.00	26.40 26.29 28.06 27.66 30.08
	55	ATOM ATOM ATOM ATOM	557 558 559 560 561	N CA CB CG CD1	LEU LEU LEU	378 378 378 378	26.015 24.542 24.291 22.778 24.911	7.695 8.001 9.180 9.353	11.315 11.027 10.073 9.869	1.00 1.00 1.00	26.40 26.29 28.06 27.66
		ATOM ATOM ATOM ATOM ATOM ATOM	557 558 559 560 561 562 563	N CA CB CG CD1 CD2	ren ren ren ren ren	378 378 378 378 378 378	26.015 24.542 24.291 22.778 24.911 26.120	7.695 8.001 9.180 9.353 10.458 6.695	11.315 11.027 10.073 9.869 10.642 12.459	1.00 1.00 1.00 1.00 1.00	26.40 26.29 28.06 27.66 30.08 28.55
	55 60	ATOM ATOM ATOM ATOM ATOM ATOM ATOM	557 558 559 560 561 562 563 564	N CA CB CG CD1 CD2 C	ren ren ren ren ren ren	378 378 378 378 378 378	26.015 24.542 24.291 22.778 24.911 26.120 26.379	7.695 8.001 9.180 9.353 10.458 6.695 7.075	11.315 11.027 10.073 9.869 10.642 12.459 13.605	1.00 1.00 1.00 1.00 1.00	26.40 26.29 28.06 27.66 30.08 28.55 24.76
		ATOM ATOM ATOM ATOM ATOM ATOM	557 558 559 560 561 562 563	N CA CB CG CD1 CD2	ren ren ren ren ren	378 378 378 378 378 378	26.015 24.542 24.291 22.778 24.911 26.120	7.695 8.001 9.180 9.353 10.458 6.695	11.315 11.027 10.073 9.869 10.642 12.459	1.00 1.00 1.00 1.00 1.00	26.40 26.29 28.06 27.66 30.08 28.55

	5	ATOM	567	CB	LEU	379	25.401	3.073	12.667	1.00	28.53
		ATOM	568	CG	LEU	379	23.875	3.023	12.845	1.00	30.29
•		ATOM	569	CD1	LEU	379	23.248	1.943	11.963	1.00	33.04
				CD2		379		2.759	14.312	1.00	29.45
		ATOM	570		LEU		23.563				
		ATOM	571	C	LEU	379	27.430	4.176	13.670	1.00	27.18
	10	ATOM	572	0	LEU	379	27.653	3.979	14.866	1.00	25.95
		MOTA	573	N	GLU	380	28.402	4,236	12.762	1.00	25.86
		ATOM	574	CA	GLU	380	29.786	4.054	13.173	1.00	27.58
		MOTA	575	CB	GLU	380	30.730	4.036	11.968	1.00	30.36
		ATOM	576	CG	GLU	380	32.172	3.785	12.380	1.00	37.98
	15	ATOM	577	CD	GLU	380	33.080	3.471	11.210	1.00	45.23
		ATOM	578	OE1	GLU	380	32.869	4.048	10.120	1.00	42.99
			579	OE2	GLU	380					
		ATOM					34.004	2.646	11.386	1.00	45.79
		MOTA	580	C	GLU	380	30.218	5.159	14.133	1.00	27.50
		MOTA	581	0	GLU	380	31.056	4.937	15.010	1.00	26.67
	20	ATOM	582	N	ACYS	381	29.637	6.339	13.965	0.75	24.89
		MOTA	583	N	BCYS	381	29.645	6.352	13.980	0.25	25.79
		ATOM	584	CA	ACYS	381	29.969	7.466	14.826	0.75	24.12
		ATOM	585	CA	BCYS	381	29.993	7.481	14.847	0.25	24.86
		ATOM	586	CB	ACYS	381	29.621	8.781	14.122	0.75	25.96
	25	ATOM	587	CB	BCYS	381	29.766	8.814	14.115	0.25	25.62
		ATOM	588	SG	ACYS	381	30.698	9.192	12.732	0.75	31.63
٠Đ				SG							
IJ		ATOM	589		BCYS	381	30.227	10.312	15.059	0.25	25.40
Ø		ATOM	590	C	ACYS	381	29.237	7.422	16.162	0.75	22.07
-		MOTA	591	С	BCYS	381	29.211	7.498	16.159	0.25	23.97
i.	30	ATOM	592	0	ACYS	381	29.812	7.730	17.206	0.75	21.97
يە كەۋ		MOTA	593	0	BCYS	381	29.724	7.940	17.187	0,25	23.99
' -J		ATOM	594	N	ALA	382	27.974	7.012	16.128	1.00	23.41
74		ATOM	595	CA	ALA	382	27.140	7.015	17.318	1.00	22.83
E)		ATOM	596	CB	ALA	382	25.785	7.587	16.948	1,00	25.50
	35	ATOM	597	C	ALA	382	26.913	5.755	18.131	1.00	25.39
لدا		ATOM	598	ō	ALA	382	26.374	5.837	19.234	1.00	23.09
ليزا		ATOM	599	N	TRP	383	27.311	4.602	17.615	1.00	25.98
		ATOM	600	CA		383					
D					TRP		27,026	3.354	18,318	1.00	23.80
Ō	40	ATOM	601	CB	TRP	383	27.669	2.172	17.580	1.00	22.52
,m2	40	MOTA	602	CG	TRP	383	29.130	2.054	17.762	1.00	24.42
		ATOM	603	CD2	TRP	383	29.797	1.347	18.803	1.00	27.31
		ATOM	604	CE2	TRP	383	31.182	1.484	18.579	1.00	28.24
	٠	MOTA	605	CE3	TRP	383	29.360	0.609	19.912	1.00	27.37
		ATOM	606	CD1	TRP	383	30.102	2.578	16.965	1.00	24.58
	45	ATOM	607	NE1	TRP	383	31.342	2.239	17.446	1.00	27.35
		ATOM	608	CZ2	TRP	383	32.133	0.909	19.420	1.00	28.76
		ATOM	609	CZ3	TRP	383	30.305	0.039	20.745	1.00	28.09
		ATOM	610	CH2	TRP	383	31.674	0.191	20.496	1.00	29.77
		ATOM	611	C	TRP	383	27.356	3.309	19.802	1.00	23.54
	50	MOTA	612	0			26.526		20.584	1.00	
	50				TRP	383		2.866			22.90
		ATOM	613	N	LEU	384	28.542	3.765	20.211	1.00	20.37
		ATOM	614	CA	LEU	384	28.864	3.713	21.640	1.00	22.41
		MOTA	615	CB	ŗΕU	384	30.369	3.890	21.883	1.00	24.98
		MOTA	616	CG	LEU	384	30.824	3.645	23.336	1.00	27.33
	55	MOTA	617	CD1	LEU	384	30.273	2.305	23.853	1.00	29.71
		MOTA	618	CD2	LEU	384	32.336	3.648	23.398	1.00	26.07
		MOTA	619	C	LEU	384	28.075	4.732	22.453	1.00	19.44
		ATOM	620		LEU	384	27.706	4.458	23.595	1.00	23.24
		ATOM	621	N	GLU	385	27.807	5.909	21.885	1.00	20.80
	60	ATOM	622	CA	GLU	385	27.011	6.895	22.612	1.00	21.32
		ATOM	623	CB	GLU	385	26.861	8.177	21.797	1.00	21.91
			624								
		AIOM	024	CG	GLU	385	28.115	9.020	21.705	1.00	21.61

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	5	MOTA	625	CD	GLU	385	27.882	10.256	20.860	1.00	29.53
		ATOM	626	OE1	GLU	385	27.374	11.256	21.401	1.00	30.54
		MOTA	627	OE2	GLU	385	28.188	10.219	19.658	1.00	29.97
		MOTA	628	C	GLU	385	25.616	6.292	22.836	1.00	22.26
		MOTA	629	0	GLU	385	25.022	6.438	23.902	1.00	22.26
	10	ATOM	630	N	ILE	386	25.101	5.617	21.812	1,00	22.03
		ATOM	631	CA	ILE	386	23.779	4.995	21.896	1.00	22,74
		ATOM	632	CB	ILE	386	23.328	4.455	20.498	1,00	22.88
		ATOM	633	CG2	ILE	386	22.009	3.647	20.618	1.00	23.85
		ATOM	634	CG1	ILE	386	23.085	5.651	19.561	1.00	25.05
	15										26.42
	15	ATOM	635	CD1	ILE	386	22.994	5.297	18.078	1.00	
		ATOM	636	C	ILE	386	23.766	3.897	22.961	1.00	22,50
		ATOM	637	Ó	ILE	386	22.823	3.818	23.746	1.00	24.75
		MOTA	638	N	LEU	387	24.810	3.071	23.020	1.00	22.25
		ATOM	639	CA	LEU	387	24.868	2.030	24.051	1.00	22.95
	20	ATOM	640	CB	LEU	387	26.096	1.132	23.864	1.00	24.61
		MOTA	641	CG	LEU	387	26.070	0.194	22.654	1,00	23.21
		ATOM	642	CD1	LEU	387	27.297	-0.709	22.705	1.00	25.36
		ATOM	643	CD2	LEU	387	24.791	-0.631	22.652	1.00	26.29
		ATOM	644	C	LEU	387	24.944	2.660	25.438	1.00	26.22
	25	ATOM	645	0	LEU	387	24.287	2.204	26.386	1.00	23.55
		ATOM	646	N	MET	388	25.751	3.713	25.554	1.00	23.92
Ø		ATOM	647	CA	MET	388	25.924	4.385	26.835	1.00	24.26
N		ATOM	648	CB	MET	388	27.088	5.378	26.761	1.00	23.87
Ü		ATOM	649	CG	MET	388	28.440	4.722	26.743	1.00	24.08
di.	30			SD		388		5.992	26.736	1.00	27.70
· • [30	ATOM	650		MET		29.726				
nd-		ATOM	651	CE	MET	388	31.139	5.041	27.078	1.00	21.74
i,		ATOM	652	C	MET	388	24.660	5.094	27.321	1.00	23.33
II.		ATOM	653	0	MET	388	24.341	5.026	28.505	1.00	25.58
٦	• •	ATOM	654	N	ILE	389	23.935	5.775	26.436	1.00	24.62
لرا	35	MOTA	655	CA	ILE	389	22.729	6.440	26.905	1,00	24.03
1,0 4,2 5		MOTA	656	CB	ILE	389	22.132	7.439	25.852	1.00	27.01
		MOTA	657	CG2	ILE	389	21.413	6.705	24,706	1.00	23,98
		ATOM	658	CG1	ILE	389	21.185	8.402	26.584	1.00	25.49
ıĎ		ATOM	659	CD1	ILE	389	20.431	9.383	25.683	1.00	25.45
ıØ	40	ATOM	660	C	ILE	389	21.694	5.401	27.349	1.00	26.54
		ATOM	661	0	ILE	389	20.938	5.631	28.294	1.00	22.58
		MOTA	662	N	GLY	390	21.679	4.247	26.687	1.00	27.14
		ATOM	663	CA	GLY	390	20.753	3.201	27.090	1.00	28.42
		ATOM	664	C	GLY	390	21,133	2.719	28.482	1,00	29.67
	45	ATOM	665	ō	GLY	390	20.275	2.521	29.348	1.00	29.21
		ATOM	666	N	LEU	391	22.433	2.547	28.699	1,00	26.06
		ATOM	667	CA	LEU	391	22.955	2.091	29.983	1.00	29.23
		ATOM	668	CB	LEU	391	24.476	1.937	29.899	1.00	28.37
	60	ATOM	669	CG	LEU	391	25.206	1.656	31.210	1.00	30.81
	50	MOTA	670	CD1	LEU	391	24.717	0.332	31.793	1.00	25.73
		ATOM	671	CD2	LEU	391	26.709	1.619	30.958	1.00	25.25
		MOTA	672	C	LEU	391	22.603	3.070	31.104	1.00	30.84
		MOTA	673	0	LEU	391	22.156	2.669	32.186	1.00	29.19
•		MOTA	674	N	VAL	392	22.817	4.355	30.850	1.00	28.91
	55	MOTA	675	CA	VAL	392	22.506	5.369	31.851	1.00	28.86
		MOTA	676	CB	VAL	392	22.923	6.770	31.353	1.00	30.08
		ATOM	677	CG1	VAL	392	22.329	7.854	32.237	1.00	32.32
		ATOM	678	CG2	VAL	392	24.442	6.870	31.372	1.00	28.52
		ATOM	679	С	VAL	392	21.013	5.327	32.165	1.00	28,42
	60	MOTA	680	Ō	VAL	392	20.621	5.345	33.327	1.00	30.38
		ATOM	681	N	TRP	393	20.191	5.241	31.125	1.00	28.23
		ATOM	682	CA ·	TRP	393	18.732		31.280	1.00	29.70
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	5	ATOM	741	CA	PRO	399	21.785	4.968	42.586	1.00	45.35
		ATOM	742	CB	PRO	399	21.127	5.631	43.793	1.00	47.40
		MOTA	743	CG	PRO	399	19.660	5.561	43.504	1.00	47.72
		ATOM	744	C	PRO	399	23.086	4.270	42.958	1.00	44.70
		ATOM	745	0	PRO	399	23.078	3.233	43.627	1.00	46.46
	10	ATOM	746	N	GLY	400	24.202	4.840	42.509	1.00	41.57
		ATOM	747	CA	GLY	400	25.506	4.281	42.813	1.00	39.84
		ATOM	748	C	GLY	400	25.907	3.047	42,022	1.00	37.85
						400		2.560	42.176	1.00	40.48
		ATOM	749	0	GLY		27.027				
		ATOM	750	N	LYS	401	25.012	2.537	41.180		36.39
	15	ATOM	751	CA	LYS	401	25.315	1.344	40.390	1.00	34.47
		ATOM	752	CB	LYS	401	24.562	0.130	40.947	1.00	36.12
		MOTA	753	CG	LYS	401	24.633	-0.007	42.466	1.00	39.30
		ATOM	754	CD	LYS	401	24.288	-1.429	42.903	1.00	44.38
		ATOM	755	CE	LYS	401	24.459	-1.605	44.408	1.00	46.68
	20	ATOM	756	NZ	LYS	401	24.968	-2.969	44.747	1.00	53.37
		ATOM	757	C	LYS	401	24.969	1.485	38.911	1.00	32.34
		ATOM	758	Ö	LYS	401	24.141	2.308	38.531	1.00	31.16
		ATOM	759	N	LEU	402	25.612	0.663	38.086	1.00	28.52
			760		LEU	402	25.358	0.658	36.648	1.00	29.06
	25	ATOM		CA							
	25	ATOM	761	CB	LEU	402	26,661	0.847	35.867	1.00	29.26
Ö		ATOM	762	CG	LEU	402	27.278	2.242	36.029	1.00	24.67
IU		ATOM	763	CD1	LEU	402	28.623	2.310	35.310	1.00	27.47
Ü		MOTA	764	CD2	LEU	402	26.312	3.277	35.482	1.00	24.93
4		MOTA	765	C	LEU	402	24.755	-0.686	36.292	1.00	30.43
7	30	ATOM	766	0	LEU	402	25.367	-1.727	36.535	1.00	31.36
1.4	•	ATOM	767	N	LEU	403	23.552	-0.658	35.735	1.00	31.07
a		ATOM	768	CA	LEU	403 .	22.873	-1.880	35.335	1.00	32.96
'~		ATOM	769	СВ	LEU	403	21.361	-1.693	35.434	1.00	33.86
#!		ATOM	770	CG	LEU	403	20.551	-2.991	35.415	1.00	39.29
	35	ATOM	771	CD1	LEU	403	20.584	-3.637	36.806	1.00	43.62
ليا	"	ATOM	772	CD2	LEU	403	19.128	-2.689	34.998	1.00	41.32
لدا		ATOM	773	C	LEU	403	23.255	-2.218	33.899	1.00	30.06
										1.00	31.63
Ö		ATOM	774	0	LEU	403	22.543	-1.870	32.956		
νŌ	40	ATOM	775	N.	PHE	404	24.383	-2.893	33.733	1.00	29.19
· LEE	40	ATOM	776	CA	PHE	404	24.834	-3.256	32.403	1.00	28.93
		MOTA	777	CB	PHE	404	26.201	-3.929	32.493	1.00	30.05
		ATOM	778	CG	PHE	404	27.305	-2.998	32.926	1.00	30.78
		ATOM	779	CD1	PHE	404	27.794	-3.033	34.228	1.00	32.91
		ATOM	780	CD2	PHE	404	27.848	-2.078	32.030	1.00	32.75
	45	ATOM	781	CE1	PHE	404	28.816	-2.160	34.638	1.00	34.73
		ATOM	782	CE2	PHE	404	28.864	-1.205	32.423	1.00	30.68
		ATOM	783	CZ	PHE	404	29.350	-1.242	33.727	1.00	31.43
		ATOM	784	C	PHE	404	23.809	-4.181	31.756	1.00	30.80
		ATOM	785	ō	PHE	404	23.625	-4.175	30.538	1.00	28.09
	50	ATOM	786	N	ALA	405	23.138	-4.967	32.594	1.00	30.25
	50	ATOM	787	CA	ALA	405	22.104	-5.910	32.163	1.00	29.78
									31.598		29.70
		ATOM	788	CB	ALA	405	22.745	-7.172		1.00	
		ATOM	789	C	ALA	405	21.309	-6.237	33.429	1.00	31.95
		ATOM	790	0	ALA	405	21.785	-5.995	34.535	1.00	32.36
	55	ATOM	791	N	PRO	406	20.088	-6.779	33.288	1.00	34.40
		ATOM	792	CD	PRO	406	19.356	-7.102	32.053	1.00	35.81
		MOTA	793	CA	PRO	406	19.303	-7.101	34.490	1.00	36.41
		ATOM	794	CB	PRO	406	17.985	-7.654	33.935	1.00	35.38
		ATOM	795	CG	PRO	406	17.922	-7.153	32.519	1.00	36.49
	60	ATOM	796	С	PRO	406	19.997	-8.084	35.433	1.00	37.32
		ATOM	797	0	PRO	406	19.698	-8.112	36.626	1.00	38.34
		ATOM	798	N	ASN	407	20.924	-8.877	34.902	1.00	36.69
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	5	ATOM	799	CA	asn	407	21.652	-9.847	35.712	1,00	38.85
		MOTA	800	CB	asn	407	21.582	-11.243	35.083	1.00	39.69
		ATOM	801	CG	asn	407	22.232	-11.306	33.711	1.00	44.10
		ATOM	802	OD1	ASN	407	22.345	-10.296	33.009	1.00	37.78
		ATOM	803	ND2	ASN	407	22.660	-12.503	33.319	1.00	45.74
	10	ATOM	804	C	ASN	407	23.100	-9.435	35.874	1,00	38.12
	• •	ATOM	805	o	ASN	407	23.965	-10.256	36.178	1.00	39.81
		ATOM	806	N	LEU	408	23.364	-8.149	35.671	1.00	37.80
		ATOM	807	CA	LEU	408	24.713	-7.631	35.799	1.00	36.89
		ATOM	808	CB	LEU	408	25.449	-7.720	34.459	1.00	36.09
	15								34.550	1.00	35.08
	13	ATOM	809	CG	LEU	408	26.972	-7.609			
		ATOM	810	CD1	LEU	408	27.525	-8.775	35.354	1.00	39.15
		MOTA	811	CD2	LEU	408	27.578	-7.587	33.158	1.00	36.85
		ATOM	812	C	LEU	408	24.670	-6.187	36.286	1.00	40.55
		MOTA	813	0	LEU	408	24.646	-5.248	35.491	1.00	38.29
	20	MOTA	814	N	LEU	409	24.644	-6.034	37.607	1.00	39.50
		ATOM	815	CA	LEU	409	24.606	-4.733	38.257	1,00	41.00
		MOTA	816	CB	LEU	409	23.392	-4.658	39.184	1.00	43.69
		MOTA	817	CG	LEU	409	23.164	-3.382	39.993	1.00	47.35
		ATOM	818	CD1	LEU	409	22.848	-2.233	39.058	1.00	47.09
1 mag	25	ATOM	819	CD2	LEU	409	22.014	-3.603	40.976	1.00	49.38
		ATOM	820	С	LEU	409	25.894	-4.566	39.060	1.00	41.80
ij		ATOM	821	0	LEU	409	26.178	-5.358	39.960	1.00	41.00
IJ		ATOM	822	N	LEU	410	26.676	-3.544	38.727	1.00	39.23
Ø		ATOM	823	CA	LEU	410	27.931	-3.296	39.423	1.00	40.45
ad-	30	ATOM	824	СВ	LEU	410	29.106	-3.354	38.442	1.00	41.59
14	•	ATOM	825	CG	LEU	410	29.457	-4.660	37.716	1.00	44.87
-		ATOM	826	CD1	LEU	410	30.972	-4.728	37.554	1.00	45.41
1		ATOM	827	CD2	LEU	410	28.949	-5.872	38.484	1.00	47.02
#1		ATOM	828	C	LEU	410	27.946	-1.944	40.132	1.00	40.67
	35	ATOM	829	0	LEU	410	27.361	-0.970	39.652	1.00	40.22
ليا	33						28.610	-1.890	41.281	1.00	41.57
لدا		ATOM	830	N	ASP	411					42.69
		ATOM	831	CA	ASP	411	28.717	-0.640	42.025	1.00	
Ō		ATOM	832	CB	ASP	411	28.490	-0.874	43.528	1.00	44.44
Ū	40	ATOM	833	CG	ASP	411	29.655	-1.578	44.210	1.00	46.70
100	40	ATOM	834	OD1	ASP	411	29.537	-1.849	45.426	1.00	51.44
		ATOM	835	OD2	ASP	411	30.680	-1.861	43.553	1.00	48.79
		MOTA	836	C	ASP	411	30.088	-0.016	41.779	1.00	43.70
		ATOM		· O	ASP	411	30.933	-0.610	41.107	1.00	38.48
		MOTA	838	N	ARG	412	30.295	1.181	42.321	1.00	46.78
	45	ATOM	839	CA	ARG	412	31.554	1.905	42.171	1,00	49.97
		ATOM	840	CB	ARG	412	31.601	3.090	43.138	1.00	51.28
		MOTA	841	CG	ARG	412	30.971	4.364	42.614	1.00	54.77
		ATOM	842	CD	ARG	412	31.644	5.580	43.219	1.00	54.61
		ATOM	843	NE	ARG	412	33.071	5.615	42.912	1.00	56.53
	50	MOTA	844	CZ	ARG	412	33.827	6.708	42.985	1.00	61.90
		ATOM	845	NH1	ARG	412	33.291	7.866	43.356	1.00	63.48
		ATOM	846	NH2	ARG	412	35.120	6.645	42.682	1.00	61.21
		ATOM	847	C	ARG	412	32.771	1.026	42.429	1.00	50.29
		ATOM	848	0	ARG	412	33.628	0.866	41.561	1.00	51.02
	55	ATOM	849	N	ASN	413	32.844	0.469	43.633	1.00	51.94
		ATOM	850	CA	ASN	413	33.969	-0.375	44.021	1.00	53.15
		ATOM	851	СВ	ASN	413	33.719	-0.980	45.403	1.00	55.88
		ATOM	852	CG	ASN ASN	413	33.654	0.073	46.496	1.00	57.99
				OD1	ASN ASN		33.697	1.276	46.223	1.00	58.27
	60	ATOM	853			413				1.00	
	00	ATOM	854	ND2	ASN	413	33.551	-0.375	47.742		57.90
		ATOM	855 856	C	ASN	413	34.235	-1.480	43.013	1.00	53.95
		MOTA	856	0	ASN	413	35.386	-1.743	42.659	1.00	53.67

	5	ATOM	857	N	GLN	414	33.173	-2.129	42.547	1.00	55.33
		ATOM	858	CA	GLN	414	33.326	-3.198	41.573	1.00	55.42
		ATOM	859	CB	GLN	414	31.991	-3.904	41.343	1.00	55.44
		ATOM	860	CG	GLN	414	31.645	-4.933	42.391	1.00	56.07
		MOTA	861	CD	GLN	414	30.203	-5.376	42.336	1.00	57.40
	10				-		29.296			1.00	
	10	ATOM	862	OE1	GLN	414		-4.536	42.402		60.22
		MOTA	863	NE2	GLN	414	29.973	-6.664	42.199	1.00	57.27
		MOTA	864	C	GLN	414	33.850	-2.630	40.259	1.00	55.51
		MOTA,	865	0	GLN	414	34.654	-3.265	39.578	1.00	56.16
		ATOM	866	N	GLY	415	33.398	-1.430	39.910	1.00	57.07
	15	ATOM	867	CA	GĻY	415	33.849	-0.806	38.680	1.00	58.51
		ATOM	868	С	GLY	415	35.350	-0.582	38.689	1.00	61.10
		ATOM	869	0	GLY	415	36.023	-0.748	37.671	1.00	59.47
		ATOM	870	N	LYS	416	35.877	-0.211	39.851	1.00	62.77
		ATOM	871	CA	LYS	416		0.041	40.011	1.00	65.49
	20						37.305				
	20	ATOM	872	CB	LYS	416	37.634	0.262	41.491	1.00	66.04
		ATOM	873	CG	LYS	416	38.121	1.663	41.823	1.00	68.71
		ATOM	874	CD	LYS	416	37.078	2.439	42.613	1.00	70.98
		ATOM	875	CE	LYS	416	37.404	2.448	44.100	1.00	71.84
		ATOM	876	NZ	LYS	416	36.225	2.079	44.933	1.00	71.95
IJ	25	ATOM	877	C	LYS	416	38.159	-1.105	39.472	1.00	66.41
		ATOM	878	0	LYS	416	39.361	-0.946	39.269	1.00	67.15
Ď		ATOM	879	N	CYS	417	37.538	-2.257	39.238	1.00	67.33
IU		MOTA	880	CA	CYS	417	38.270	-3.414	38.741	1.00	68.16
ΙĎ		ATOM	881	CB	CYS	417	37.951	-4.642	39.602	1.00	70.88
毋	30										
' \	30	ATOM	882	SG	CYS	417	38.592	-4.549	41.301	1.00	76.09
1-4		MOTA	883	C	CYS	417	38.015	-3.736	37.270	1.00	67.54
1		ATOM	884	0	CYS	417	38.632	-4.653	36.720	1.00	68.48
41		MOTA	885	N	VAL	418	37.111	-2.994	36.631	1.00	64.67
		ATOM	886	CA	VAL	418	36.817	-3.226	35.218	1.00	59.97
لرا	35	MOTA	887	CB	VAL	418	35.326	-2.917	34.879	1.00	59.60
		MOTA	888	CG1	VAL	418	34.971	-1.503	35.284	1.00	59.13
Ш		MOT'A	889	CG2	VAL	418	35.072	-3.121	33.391	1.00	54.85
(2)		MOTA	890	C .	VAL	418	37.739	-2.362	34.355	1.00	58.37
۱D		ATOM	891	0	VAL	418	37.799	-1.140	34.512	1.00	55.44
٠Đ	40	ATOM	892	N	GLU	419	38.463	-3.012	33.450	1.00	56.02
		MOTA	893	CA	GLU	419	39.403	-2.328	32.570	1.00	54.28
		ATOM	894	CB	GLU	419					57.57
							40.149	-3.351	31.710	1.00	
		ATOM	895	CG	GLU	419	39.385	-3.779		1.00	60.87
	4.5	ATOM	896	CD	GLU.		40.179	-4.722	29.584	1.00	63.34
	45	MOTA	897	OE1	GLU	419	40.432	-5.870	30.011	1.00	64.90
		MOTA	898	OE2	GLU	419	40.546	-4.313	28.462	1.00	63.18
		MOTA	899	C	GLU	419	38.761	-1.281	31.662	1.00	52.05
		ATOM	900	0	GLU	419	37.665	-1.481	31.131	1.00	49.82
		ATOM	901	N	GLY	420	39.465	-0.165	31.491	1.00	49.45
	50	ATOM	902	CA	GLY	420	38.983	0.908	30.642	1.00	46.22
		ATOM	903	С	GLY	420	37.895	1.767	31.254	1.00	44.55
		ATOM	904	o	GLY	420	37.417	2.705	30.619	1.00	42.08
		ATOM	905	N	MET	421	37.503	1.471	32.488	1.00	43.41
		ATOM	906	CA	MET	421	36.449	2.248	33.123	1.00	42.48
	55	ATOM									
	33		907	CB	MET	421	35.306	1.327	33.554	1.00	42.34
		ATOM	908	CG	MET	421	34.590	0.635	32.396	1.00	38.22
		ATOM	909	SD	MET	421	32.927	0.102	32.843	1.00	38.56
		ATOM'	910	CE	MET	421	32,003	1.699	32.766	1.00	35.54
		ATOM	911	C	MET	421	36.923	3.059	34.312	1.00	41.64
	60	ATOM	912	0	MET	421	36.113	3.512	35.111	1.00	39.77
		ATOM	913	N	VAL	422	38.232	3.256	34.430	1.00	43.42
		ATOM	914	CA	VAL	422	38.757		35.557	1.00	44.79
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	5	ATOM	915	CB	VAL	422	40.285	4.248	35.433	1.00	46.54
		MOTA	916	CG1	VAL	422	40.595	5.086	34.206	1.00	48.25
		MOTA	917	CG2	VAL	422	40.813	4.920	36.696	1,00	46.24
		ATOM	918	C	VAL	422	38.056	5.372	35.689	1.00	44.09
		ATOM	919	ō	VAL	422	37.691	5.783	36.783	1.00	44.12
	10	ATOM	920	N	GLU	423	37.846	6.055	34.570	1.00	42.07
	10										
		MOTA	921	CA	GLU	423	37.192	7.356	34.616	1.00	40.24
		ATOM	922	CB	GĻU	423	37.909	8.338	33.684	1.00	44.02
		MOTA	923	CG	GLU	423	39.411	8.467	33.893	1.00	50.04
		MOTA	924	CD	GLU	423	40.096	9.158	32.719	1.00	55,64
	15	ATOM	925	OE1	GLU	423	39.539	10.156	32.205	1.00	56.66
		ATOM	926	OE2	GLU	423	41.188	8.703	32.306	1.00	58.02
		ATOM	927	C	GLU	423	35.704	7.337	34.250	1.00	35.77
		ATOM	928	Ö	GLU	423	34.881	7.955	34.919	1.00	33.20
		MOTA	929	N	ILE	424	35.345	6.617	33.197	1.00	36.16
	20	ATOM	930	CA	ILE	424	33.949	6.643	32.771	1.00	31.63
	20						•				
		MOTA	931	CB	ILE	424	33.803	6.087	31.347	1.00	33.58
		ATOM	932	CG2	ILE	424	34.639	6.936	30.395	1.00	33.48
		ATOM	933	CG1	ILE	424	34.204	4.617	31.296	1.00	34.46
		MOTA	934	CD1	ILE	424	33.857	3.955	29.978	1.00	34.67
ica	25	ATOM	935	C	ILE	424	32.890	6.035	33.685	1.00	28.89
		ATOM	936	0	ILE	424	31.729	6.443	33.632	1.00	26.49
Q		MOTA	937	N	PHE	425	33.261	5.091	34.542	1.00	29.26
jŲ		MOTA	938	CA	PHE	425	32.257	4.520	35.447	1.00	29.87
Ü		ATOM	939	CB	PHE	425	32.903	3.529	36.423	1.00	31.26
امة اير:	30			CG		425				1.00	32.17
14	20	MOTA	940		PHE		31.948	2.496	36.959		
int		MOTA	941	CD1	PHE	425	31.124	2.783	38.048	1.00	33.70
4		MOTA	942	CD2	PHE	425	31.881	1.230	36.381	1.00	30.64
		MOTA	943	CE1	PHE	425	30.244	1.814	38.563	1.00	32.60
		ATOM	944	CE2	PHE	425	31.010	0.256	36.881	1.00	31.55
₩ (22)	35	ATOM	945	CZ	PHE	425	30.189	0.549	37.973	1.00	33.34
IJ		ATOM	946	C	PHE	425	31.594	5.649	36.240	1.00	30.17
ليا		ATOM	947	0	PHE	425	30.368	5.774	36.276	1.00	26.71
		ATOM	948	N	ASP	426	32.415	6.483	36.870	1.00	29.45
·Ω		ATOM	949	CA	ASP	426	31.893	7.587	37.661	1.00	32.29
ıØ	40	ATOM	950	СВ	ASP	426	33.031	8.291	38.401	1.00	33.49
		ATOM	951	CG	ASP	426	33.455	7.546	39.655	1.00	39.42
		ATOM	952	OD1	ASP	426	32.767		40.038		
		ATOM	953	OD2	ASP	426	34.480	7.934	40.256	1.00	39.58
	4.5	ATOM	954	C	ASP	426	31.133	8.592	36.806	1.00	29.02
	45	ATOM	955	0	ASP	426	30.154	9.175	37.257	1.00	31.34
		ATOM	956	N	MET	427		8.797	35.5 7 2	1.00	30.69
		ATOM	957	CA	MET	427	30.919	9.736	34.675	1.00	28.63
		ATOM	958	CB	MET	427	31.744	9.912	33.407	1.00	26.83
		MOTA	959	CG	MET	427	33.032	10.680	33.608	1.00.	31.41
	50	ATOM	960	SD	MET	427	33.962	10.783	32.077	1.00	34.87
		ATOM	961	CE	MET	427	35.409	11.753	32,643	1.00	44.60
		ATOM	962	C	MET	427	29.526	9.202	34.324	1.00	28.70
		ATOM	963	Ö	MET	427	28.536	9.947	34.302	1.00	25.01
			964								
	5.5	ATOM		N	LEU	428	29.451	7.902	34.057	1.00	25.13
	55	ATOM	965	CA	LEU	428	28.173	7.292	33.730	1.00	27.60
		ATOM	966	CB	LEU	428	28.379	5.824	33.332	1.00	28.00
		ATOM	967	CG	LEU	428	29.039	5.682	31.957	1.00	26.99
		ATOM	968	CD1	LEU	428	29.678	4.303	31.782	1.00	27.80
		ATOM	969	CD2	LEU	428	27.995	5.927	30.894	1.00	25.33
	60	ATOM	970	C	LEU	428	27.210	7.412	34.916	1.00	29.59
		ATOM	971	0	LEU	428	26.041	7.743	34.743	1.00	27.07
		ATOM	972	N	LEU	429	27.701	7.147	36.126	1.00	30.40
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	5	ATOM	973	CA	LEU	429	26.859	7.251	37.323	1.00	30.59
		MOTA	974	CB	LEU	429	27.675	6.884	38.571	1.00	31.76
		ATOM	975	CG	LEU	429	28.078	5.415	38.757	1.00	32.43
		ATOM	976	CD1	LEU	429	28.961	5.264	39.995	1.00	31.60
		ATOM	977	CD2	LEU	429	26.825	4.573	38.903	1.00	34.66
	10	MOTA	978	C	LEU	429	26.319	8.681	37.466	1.00	30.46
		MOTA	979	0	LEU	429	25.143	8.901	37.769	1.00	28.40
		ATOM	980	N	ALA	430	27.193	9.656	37.237	1.00	31.34
		ATOM	981	CA	ALA	430	26.806	11.059	37.332	1.00	29.83
		ATOM	982	CB	ALA	430	28.017	11.951	37.078	1.00	31.29
	15	MOŢA	983	c	ALA	430	25.696	11.387	36.344	1.00	31.04
		MOTA	984	ō	ALA	430	24.753	12.107	36.674	1.00	30.79
		ATOM	985	N	THR	431	25.802	10.854	35.128	1.00	30.30
		ATOM ·		CA	THR	431	24.786	11.105	34.112	1.00	28.81
			987	CB				10.533	32.737	1,00	30.55
	20	MOTA			THR	431	25.207				
	20	MOTA	988	0G1	THR	431	26.569	10.893	32.465	1.00	31.88
		MOTA	989	CG2	THR	431	24.321	11.087	31.634	1.00	25.63
		ATOM	990	C	THR	431	23.462	10.481	34.530	1.00	29.49
		MOTA	991	0	THR	431	22.402	11.099	34.397	1.00	26.18
		ATOM	992	N	SER	432	23.520	9.253	35.037	1.00	28.11
	25	MOTA	993	CA	SER	432	22.308	8.573	35.480	1.00	29.78
Ö		ATOM	994	CB	SER	432	22,639	7.177	36.008	1.00	33,11
Ī		ATOM	995	OG	SER	432	21.454	6.412	36.136	1.00	36.92
D		MOTA	996	С	SER	432	21.651	9.399	36.589	1.00	31.49
		ATOM	997	0	SER	432	20.433	9.576	36,613	1.00	30.09
	30	MOTA	998	N	ASER	433	22.476	9.901	37.496	0.75	32.09
		ATOM	999	N	BSER.	433	22.474	9.906	37.500	0.25	31.10
خما		ATOM	1000	CA	ASER	433	22.002	10.715	38.605	0.75	35.68
V		ATOM	1001	CA	BSER	433	21.985	10.717	38.608	0.25	32.21
11		ATOM	1002	CB	ASER	433	23.185	11.097	39.502	0.75	37.18
	35	ATOM	1003	CB	BSER	433	23.145	11.104	39.529	0.25	31.45
L,U	•	ATOM	1004	OG	ASER	433	22.823	12.090	40.443	0.75	44.09
لدا		ATOM	1005	OG	BSER	433	23.785	9.953	40.053	0.25	29.52
		ATOM	1006	C	ASER	433	21.299	11.971	38.091	0.75	35.01
Ü		ATOM	1007	Ċ	BSER	433	21.295	11.976	38.092	0.25	32.88
Ü	40	ATOM	1008	0	ASER	433	20.257	12.373	38.612	0.75	35.34
	••	ATOM	1009	Ö	BSER	433	20.264	12.391	38.622	0.25	33.42
		ATOM	1010	N	ARG	434	21.867	12.579	37.054	1.00	33.38
		ATOM	1011	CA	ARG	434	21.300	13.788	36,470	1.00	34.19
		ATOM	1012	CB	ARG	434	22.239	14.354	35.400	1.00	33.89
	45	ATOM	1013		ARG	434	21.670	15.528	34.625	1.00	38.30
	45	ATOM	1013	CD	ARG	434	21.559	16.787	35.479	1.00	37.91
				NE	ARG	434		17.944	34.680	1.00	37.78
•		ATOM	1015				21.158				
		ATOM	1016	CZ	ARG	434	20.488	18.995	35.149	1.00	41.06
	e A	ATOM	1017	NH1	ARG	434	20.132	19.049	36.428	1.00	40.70
	50	ATOM	1018	NH2	ARG	434	20.175	19.998	34.337	1.00	38.78
		ATOM	1019	C	ARG	434	19.937	13.491	35.873	1.00	33.48
		MOTA	1020	0	ARG	434	18.996	14.266	36.053	1.00	30.54
		MOTA	1021	N	PHE	435	19.831	12.371	35.158	1.00	34.68
	~~	ATOM	1022	CA	PHE	435	18.563	11.963	34.549	1.00	35.02
	55	ATOM	1023	CB	PHE	435	18.727	10.634	33.796	1.00	34.96
		ATOM	1024	CG	PHE	435	19.240	10.779	32.386	1.00	37.63
		MOTA	1025	CD1	PHE	435	19.459	12.035	31.824	1.00	42.03
		MOTA	1026	CD2	PHE	435	19.521	9.649	31.623	1.00	41.24
		MOTA	1027	CE1	PHE	435	19.953	12.164	30.521	1.00	43.11
	60	ATOM	1028	CE2	PHE	435	20.016	9.768	30.322	1.00	40.59
		ATOM	1029	CZ	PHE	435	20.233	11.029	29.775	1.00	40.63
		ATOM	1030	c	PHE	435	17.527	11.780	35.657	1.00	35.49

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	5	ATOM	1031	Ο.	PHE	435	16.361	12.135	35.496	1.00	34.78
		ATOM	1032	N	arg	436	17.968	11.216	36.777	1.00	30.27
		ATOM	1033	CA	ARG	436	17.094	10.982	37.924	1.00	40.67
		ATOM	1034	CB	ARG	436	17.844	10.215	39.012	1.00	40.70
		ATOM	1035	CG	ARG	436	16.942	9.590	40.068	1.00	44.98
	10	ATOM	1036	CD	ARG	436	17.648	8.459	40.810	1.00	48.09
		ATOM	1037	NE	ARG	436	18.982	8.841	41.275	1.00	50.16
		ATOM	1038	cz	ARG	436	20.119	8.361	40.777	1.00	52.19
		ATOM	1039	NH1	ARG	436	20.099	7,472	39.790	1.00	49.34
		ATOM	1040	NH2	ARG	436	21.283	8.770	41.266	1.00	51.85
	15	ATOM	1041	C	ARG	436	16.576	12.302	38.493	1.00	40.40
		ATOM	1042	0	ARG	436	15.382	12.458	38,730	1.00	41.49
		ATOM	1043	N	MET	437	17.477	13.252	38.706	1.00	40.92
		ATOM	1044	CA	MET	437	17.090	14.546	39.245	1.00	41.02
		ATOM	1045	CB	MET	437	18.329	15.427	39.440	1.00	40.29
	20	ATOM	1046	C	MET	437	16.099	15.221	38.299	1.00	40.81
		ATOM	1047	ō	MET	437	15.111	15.805	38.734	1,00	42.46
		ATOM	1048	N	MET	438	16.367	15.127	37.001	1.00	39.02
		MOTA	1049	CA	MET	438	15.510	15.732	35.988	1.00	40.11
	0.5	ATOM	1050	CB	MET	438	16.237	15.793	34.651	1.00	38.16
	25	ATOM	1051	CG	MET	438	17.352	16.794	34.601	1.00	41.52
Ď		MOTA	1052	SD	MET	438	17.999	16.862	32.943	1.00	43.94
ij		ATOM	1053	CE	MET	438	16.698	17.748	32.096	1.00	39.96
		MOTA	1054	C	MET	438	14.221	14.964	35.783	1.00	37.72
Ü		ATOM	1055	0	MET	438	13.305	15.451	35.125	1.00	36.82
125	30	ATOM	1056	N	ASN	439	14.155	13.759	36.337	1.00	38.81
, موا	•	ATOM	1057	CA	ASN	439	12.981	12.919	36.174	1.00	40.77
·-		ATOM	1058	CB	ASN	439	11.762	13.556	36.847	1.00	44.52
· •		ATOM	1059	CG	ASN	439	10.566	12.620	36.887	1.00	48.29
ŧi											
	35	ATOM	1060	OD1	ASN	439	10.721	11.400	36.964	1.00	48.48
Ü	33	ATOM	1061	ND2	ASN	439	9.365	13.189	36.829	1.00	50.23
ليرا		MOTA	1062	С	ASN	439	12.725	12.744	34.677	1.00	39.36
		MOTA	1063	0	asn	439	11.637	13.037	34.172	1.00	37.76
		ATOM	1064	N	LEU	440	13.749	12.274	33.972	1,00	37.65
Ď		ATOM	1065	CA	LEU	440	13.655	12.052	32.532	1.00	35.22
ŧΩ	40	ATOM	1066	CB	LEU	440	14.999	11.576	31.987	1.00	34.70
		ATOM	1067	CG	LEU	440	15.022	11.467	30.462	1.00	35.45
		MOTA	1068	CD1	LEU	440	14.890	12.862	29.869	1.00	35.24
		ATOM	1069	CD2	LEU	440	16.297	10.795	29.999	1.00	35.30
		ATOM	1070	c	LEU	440	12.587	11.024	32.196	1.00	36.48
	45	ATOM	1071	ō	LEU	440	12.518	9.967	32.826	1.00	37.36
	••	ATOM	1072	N	GLN	441	11.763	11.328	31.197	1.00	36.82
		ATOM	1073	CA	GLN	441	10.696	10.420	30.785	1.00	38.51
		ATOM	1074	CB	GLN	441	9.431	11.211	30.443	1.00	38.23
		ATOM	1075	CG	GLN	441	8.912	12.063	31.592	1.00	42.46
	50	ATOM	1076	CD	GLN	441	8.362	11.227	32.729	1,00	44.91
		ATOM	1077	OE1	GLN	441	7.268	10.668	32.629	1.00	47.31
		ATOM	1078	NE2	GLN	441	9.119	11.132	33.818	1.00	44.06
		ATOM	1079	C	GLN	441	11.099	9.565	29.585	1.00	38.48
		ATOM	1080	0	GLN	441	11.923	9.976	28.763	1.00	35.80
	55	ATOM	1081	N	GLY	442	10.500	8.378	29.494	1.00	36.03
		ATOM	1082	CA	GLY	442	10.792	7.468	28.401	1.00	37.72
		ATOM	1082	C	GLY	442	10.792	8.112	27.043	1.00	36.88
		ATOM	1084	0	GLY	442	11.381	7.877	26.123	1.00	33.72
	60	ATOM	1085	N	GLU	443	9.556	8.925	26.918	1.00	36.59
	60	MOTA	1086	CA	GLU	443	9.269	9.603	25.661	1.00	37.13
		ATOM	1087	CB	GLU	443	7.956	10.379	25.764	1.00	41.57
		MOTA	1088	CG	GLU	443	6.723	9.488	25.879	1.00	47.76
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	5	MOTA	1089	CD	GLU	443	6.483	9.008	27.302	1.00	53.96
		MOTA	1090	OE1	GĻU	443	5.619	8.123	27.498	1.00	57.66
		ATOM	1091	OE2	GLU	443	7.159	9.515	28.225	1.00	56.13
		ATOM	1092	С	GLU	443	10.408	10.551	25.311	1.00	35.27
		ATOM	1093	0	GLU	443	10.759	10.704	24.145	1.00	33.85
	10	ATOM	1094	N	GLU	444	10.984	11.179	26.331	1.00	32.09
	10	ATOM	1095	CA	GLU	444	12.097	12.095	26.126	1.00	33.92
		MOTA	1095	CB	GLU	444	12.332	12.924	27.388	1.00	34.97
										1.00	38.28
		MOTA	1097	CG	GLU	444	11.169	13.845	27.732		
	1.0	MOTA	1098	CD	GLU	444	11.383	14.610	29.023	1.00	38.11
	15	ATOM	1099	OE1	GLU	444	11.800	13.993	30.026	1.00	39.53
		ATOM	1100	OE2	GLU	444	11.132	15.834	29.036	1.00	40.77
		ATOM	1101	C	GLU	444	13.356	11.305	25.770	1.00	33.59
		ATOM	1102	0	GLU	444	14.085	11.670	24.842	1.00	33.35
		MOTA	1103	N	PHE	445	13.590	10.215	26.501	1.00	30.68
	20	MOTA	1104	CA	PHE	445	14.753	9.357	26.276	1.00	32,49
		ATOM	1105	CB	PHE	445	14.703	8.139	27.203	1.00	29.35
		MOTA	1106	CG	PHE	445	15.667	7.047	26.828	1.00	30.78
		ATOM	1107	CD1	PHE	445	17.036	7.201	27.030	1.00	28.25
		MOTA	1108	CD2	PHE	445	15.205	5.863	26.266	1.00	30.62
1555	25	MOTA	1109	CE1	PHE	445	17.933	6.195	26.675	1.00	28.67
Ü		ATOM	1110	CE2	PHE	445	16.095	4.848	25.908	1.00	31.37
\D		ATOM	1111	CZ	PHE	445	17.460	5.015	26.113	1.00	30.37
IU		ATOM	1112	C	PHE	445	14.850	8.885	24.829	1.00	31.11
D		MOTA	1113	0	PHE	445	15.924	8.947	24.221	1.00	32.20
	30										
'~ [30	ATOM	1114	N	VAL	446	13.739	8.415	24.266	1.00	28.63
i 📥		MOTA	1115	CA	VAL	446	13.787	7.943	22.889	1.00	27.94
100		ATOM	1116	CB	VAL	446	12.478	7.193	22.478	1.00	28.48
\$ }		MOTA	1117	CG1	VAL	446	12.318	5.939	23.343	1.00	29.61
Ü		MOTA	1118	CG2	VAL	446	11.265	8.092	22.607	1.00	27.23
Į.J	35	MOTA	1119	C	VAL	446	14.099	9.064	21,900	1.00	27.28
لَيْا		MOTA	1120	0	VAL	446	14.781	8.837	20.904	1.00	28.07
		ATOM	1121	N	CYS	447	13.619	10.275	22.166	1.00	28.97
اسما جو		MOTA	1122	CA	CYS	447	13.919	11.394	21.272	1.00	29.14
II.		ATOM	1123	CB	CYS	447	13.156	12.653	21.693	1.00	28.90
ıD	40	ATOM	1124	SG	CYS	447	11.389	12.591	21.309	1.00	35.68
		ATOM	1125	C	CYS	447	15.420	11.677	21.328	1.00	28.03
		MOTA	1126	0	CYS	447	16.063	11.885	20.302	1.00	29.34
		MOTA	1127	N	LEU	448	15.969	11.686	22.538	1.00	27.28
		ATOM	1128		LEU	448	17.392	11.938	22.729	1.00	25.30
	45	ATOM		CB	LEU	448	17.733	11.932	24.220	1.00	27.72
		ATOM	1130	CG	LEU	448	17.248	13.135	25.040	1.00	29.54
		ATOM	1131	CD1	LEU	448	17.807	13.042	26.454	1.00	30.85
		ATOM		CD2	LEU	448	17.688	14.434	24,376	1.00	30.24
		ATOM	1133	CDZ	LEU	448	18.245	10.902	22.008	1.00	27.62
	50			0					21.327	1.00	25.10
	30	ATOM	1134		LEU	448	19.207	11.252			25.16
		ATOM		N	LYS	449	17.905	9.621	22.162		
		MOTA	1136		LYS	449	18.673	8.570	21.506		27.55
		ATOM	1137		LYS	449	18.135	7.185	21.900		28.99
		ATOM		CG	LYS	449	19.134	6.052	21.694	1.00	34.70
	55	ATOM	1139		LYS	449	18.737	4.789	22.459		32.67
		MOTA	1140	CE	LYS	449	17.267	4.419	22.220		31.87
		MOTA		NZ	LYS	449	17.022	2.967	22.472		29.14
		ATOM	1142	C	LYS	449	18.626	8.749	19.990	1.00	25.88
		ATOM	1143		LYS	449	19.610	8.489	19.296	1.00	25.93
	60	ATOM	1144		SER	450	17.482	9.197	19.480	1.00	26.07
		ATOM	1145		SER	450	17.323		18.052		27.24
		ATOM	1146		SER	450	15.857	9.705	17.721	1.00	32.24
							242			-	

5	ATOM	1147	OG	SER	450	15.098	8.519	17.779	1.00	34.94
	ATOM	1148	C	SER	450	18.176	10.607	17.618	1.00	26.78
	ATOM	1149	0	SER	450	18.763	10.598	16.535	1.00	25.85
	ATOM						11.632	18.463	1.00	26.94
									1.00	26.13
10										27.72
. •									-	20.53
										29.49
										36.24
										24.88
15										26.96
	ATOM									22.72
	MOTA		CA			22.359				21.95
	MOTA	1160	CB	ILE	452	22.660	10.155	20.050	1.00	23.57
	MOTA	1161	CG2	ILE	452	23.982	9.435	19.804	1.00	22.10
20	ATOM	1162	CG1	ILE	452	22.718	10.949	21.371	1.00	21.70
	ATOM	1163	CD1	ILE	452	22.768	10.060	22.624	1.00	25.30
		1164	С	ILE	452	22.656	10.419	17.557	1.00	23.02
										21,25
										22.83
25										22.05
<u></u>										22.06
										22.03
										24.81
30										24.73
30										23.95
										24.60
										26.72
										26,45
	ATOM	1176		LEU						25.51
35	MOTA	1177	CG	LEU	454	18.737	11.222		1.00	30.16
	ATOM	1178	CD1	LEU	454	17.405	11.926	12.955	1,00	28.76
	MOTA	1179	CD2	LEU	454	19.037	10.478	11.759	1.00	32.59
	ATOM	1180	С	LEU	454	22.292	12.703	13.552	1,00	28.24
	ATOM	1181	0	LEU	454	22.778	13.148	12.513	1.00	29.06
40	ATOM	1182	N	ASN	455	22.638	13.146	14.757	1.00	26.56
							14.236	14.934	1.00	26.79
					455	23.284	14.998			26.20
		1185	CG		455	24.174		16.419	1.00	27.26
										30.83
45										27.16
										30.63
										27.69
										30.48
<i>5</i> 0										35.26
30										39.69
										30.73
			C							35.56
	MOTA			SER	456	28.599	13.041	14.884	1.00	33.00
	ATOM	1196	N	GLY	457	27.437	11.886	13.334	1.00	33.88
55	ATOM	1197	CA	GLY	457	28.393	12.189	12.292	1,00	36.77
	ATOM	1198	С	GLY	457	27.876	13.017	11.136	1.00	37.02
	ATOM						12.805	10.013	1.00	38.66
										39.12
										43.81
60	ATOM	1202	CB	VAL	458	25.231	15.648	10.755	1.00	44.25
										
00	ΔTOM	1202	CG1	VAT.	450	24 2NG	7 5 77 4	Q EZI	7 00	44 51
00	ATOM ATOM	1203 1204	CG1 CG2	VAL VAL	458 458	24.209 24.638	15.713 15.098	9.631 12.013	1.00	44.51 50.53
	10 15 20 25 30 35 40 45	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	ATOM 1148 ATOM 1150 ATOM 1151 10 ATOM 1152 ATOM 1153 ATOM 1154 ATOM 1155 ATOM 1156 15 ATOM 1156 15 ATOM 1157 ATOM 1160 ATOM 1161 20 ATOM 1162 ATOM 1163 ATOM 1166 ATOM 1166 ATOM 1166 ATOM 1166 ATOM 1167 ATOM 1168 ATOM 1168 ATOM 1170 ATOM 1171 30 ATOM 1171 31 ATOM 1176 35 ATOM 1176 35 ATOM 1176 ATOM 1178 ATOM 1178 ATOM 1178 ATOM 1180 ATOM 1181 40 ATOM 1181 40 ATOM 1182 ATOM 1188 ATOM 1189 ATOM 1189 ATOM 1189 ATOM 1190 ATOM 1191 50 ATOM 1191 51 ATOM 1192 ATOM 1193 ATOM 1194 ATOM 1195 ATOM 1196 55 ATOM 1197 ATOM 1198 ATOM 1199	ATOM 1149 C ATOM 1150 N ATOM 1151 CA 10 ATOM 1152 CB ATOM 1153 CG2 ATOM 1154 CG1 ATOM 1155 CD1 ATOM 1156 C 15 ATOM 1157 O ATOM 1158 N ATOM 1159 CA ATOM 1160 CB ATOM 1161 CG2 20 ATOM 1162 CG1 ATOM 1163 CD1 ATOM 1164 C ATOM 1165 O ATOM 1166 N 25 ATOM 1166 N 25 ATOM 1167 CA ATOM 1168 CB ATOM 1168 CB ATOM 1169 CG ATOM 1170 CD1 ATOM 1170 CD1 ATOM 1171 CD2 30 ATOM 1172 C ATOM 1174 N ATOM 1175 CA ATOM 1176 CB 35 ATOM 1177 CG ATOM 1176 CB 36 ATOM 1177 CG ATOM 1178 CD1 ATOM 1179 CD2 ATOM 1179 CD2 ATOM 1180 C ATOM 1181 O 40 ATOM 1181 CB ATOM 1182 N ATOM 1183 CA ATOM 1184 CB ATOM 1185 CG ATOM 1186 OD1 45 ATOM 1187 ND2 ATOM 1188 C ATOM 1189 O ATOM 1190 N ATOM 1191 CA ATOM 1191 CA ATOM 1191 CA ATOM 1192 CB ATOM 1193 OG ATOM 1194 C ATOM 1195 O ATOM 1196 N 55 ATOM 1197 CA ATOM 1198 C ATOM 1199 O ATOM 1200 N	ATOM 1149 C SER ATOM 1149 O SER ATOM 1150 N ILE ATOM 1151 CA ILE ATOM 1151 CA ILE ATOM 1153 CG2 ILE ATOM 1154 CG1 ILE ATOM 1155 CD1 ILE ATOM 1155 CD1 ILE ATOM 1156 C ILE ATOM 1157 O ILE ATOM 1158 N ILE ATOM 1159 CA ILE ATOM 1160 CB ILE ATOM 1161 CG2 ILE ATOM 1161 CG2 ILE ATOM 1162 CG1 ILE ATOM 1163 CD1 ILE ATOM 1164 C ILE ATOM 1165 O ILE ATOM 1166 N LEU ATOM 1166 N LEU ATOM 1166 CG ILE ATOM 1166 CG ILE ATOM 1167 CA LEU ATOM 1168 CB LEU ATOM 1169 CG LEU ATOM 1170 CD1 LEU ATOM 1171 CD2 LEU ATOM 1171 CD2 LEU ATOM 1171 CD2 LEU ATOM 1172 C LEU ATOM 1173 O LEU ATOM 1174 N LEU ATOM 1175 CA LEU ATOM 1176 CB LEU ATOM 1177 CG LEU ATOM 1178 CD1 LEU ATOM 1179 CD2 LEU ATOM 1180 C LEU ATOM 1181 O LEU ATOM 1180 C LEU ATOM 1181 CA ASN ATOM 1182 N ASN ATOM 1183 CA ASN ATOM 1184 CB ASN ATOM 1185 CG ASN ATOM 1186 OD1 ASN ATOM 1187 ND2 ASN ATOM 1188 C ASN ATOM 1189 C ASN ATOM 1189 C ASN ATOM 1190 N SER ATOM 1191 CA SER ATOM 1191 CA SER ATOM 1192 CB SER ATOM 1193 OG SER ATOM 1194 C SER ATOM 1195 O SER ATOM 1196 N GLY ATOM 1199 O GLY	ATOM 1149 C SER 450 ATOM 1149 O SER 450 ATOM 1150 N ILE 451 ATOM 1151 CA ILE 451 ATOM 1152 CB ILE 451 ATOM 1153 CG2 ILE 451 ATOM 1155 CD1 ILE 451 ATOM 1155 CD1 ILE 451 ATOM 1155 CD1 ILE 451 ATOM 1156 C ILE 451 ATOM 1157 O ILE 451 ATOM 1158 N ILE 452 ATOM 1159 CA ILE 452 ATOM 1160 CB ILE 452 ATOM 1161 CG2 ILE 452 ATOM 1162 CG1 ILE 452 ATOM 1163 CD1 ILE 452 ATOM 1163 CD1 ILE 452 ATOM 1166 C ILE 452 ATOM 1166 C ILE 452 ATOM 1167 CA ILEU 453 ATOM 1168 CB ILEU 453 ATOM 1168 CB ILEU 453 ATOM 1169 CG ILEU 453 ATOM 1169 CG ILEU 453 ATOM 1170 CD1 ILEU 453 ATOM 1170 CD1 ILEU 453 ATOM 1171 CD2 ILEU 453 ATOM 1172 C ILEU 453 ATOM 1173 O ILEU 453 ATOM 1174 N ILEU 454 ATOM 1175 CA ILEU 454 ATOM 1176 CB ILEU 454 ATOM 1177 CG ILEU 454 ATOM 1178 CD1 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1178 CD1 ILEU 454 ATOM 1178 CD1 ILEU 454 ATOM 1178 CD1 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1178 CD1 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1179 CD2 ILEU 454 ATOM 1180 C ILEU 454 ATOM 1180 C ILEU 454 ATOM 1181 O ILEU 454 ATOM 1182 N ASN 455 ATOM 1183 CA ASN 455 ATOM 1184 CB ASN 455 ATOM 1188 C ASN 455 ATOM 1189 C GLY 457 ATOM 1190 N SER 456 ATOM 1190 N SER 456 ATOM 1191 CA SER 456 ATOM 1192 CB SER 456 ATOM 1193 OG SER 456 ATOM 1194 C SER 456 ATOM 1195 O SER 456 ATOM 1196 N GLY 457 ATOM 1199 O SER 456 ATOM 1199 C SER 456 ATOM 1199 C SER 456 ATOM 1199 O SER 456	ATOM 1149 C SER 450 18.176 ATOM 1149 O SER 450 18.763 ATOM 1150 N ILE 451 18.231 10 ATOM 1151 CA ILE 451 19.032 ATOM 1153 CG2 ILE 451 19.032 ATOM 1153 CG2 ILE 451 17.553 ATOM 1155 CD1 ILE 451 17.577 ATOM 1156 C ILE 451 17.377 ATOM 1157 O ILE 451 20.489 15 ATOM 1157 O ILE 451 21.161 ATOM 1158 N ILE 452 22.359 ATOM 1160 CB ILE 452 22.359 ATOM 1161 CG2 ILE 452 22.360 ATOM 1161 CG2 ILE 452 22.360 ATOM 1161 CG2 ILE 452 22.660 ATOM 1163 CD1 ILE 452 22.768 ATOM 1166 CB ILE 452 22.768 ATOM 1166 CB ILE 452 22.768 ATOM 1166 CB ILE 452 22.768 ATOM 1166 CD ILE 452 22.768 ATOM 1166 CD ILE 452 22.768 ATOM 1166 C ILE 452 22.768 ATOM 1166 C ILE 452 22.768 ATOM 1167 CA ILE 452 22.768 ATOM 1167 CA ILE 452 22.650 ATOM 1167 CA ILE 453 20.779 ATOM 1170 CD1 LEU 453 20.843 ATOM 1170 CD1 LEU 453 20.843 ATOM 1171 CD2 LEU 453 20.843 ATOM 1172 C ILEU 453 22.962 ATOM 1173 C ILEU 453 22.962 ATOM 1174 N ILEU 454 21.234 ATOM 1175 CB ILEU 454 19.852 ATOM 1176 CB ILEU 454 19.852 ATOM 1177 CG ILEU 454 19.852 ATOM 1179 CD2 LEU 454 19.037 ATOM 1179 CD2 LEU 454 19.037 ATOM 1179 CD2 LEU 454 19.037 ATOM 1180 C ILEU 454 22.778 ATOM 1181 C ILEU 454 22.778 ATOM 1182 N ASN 455 22.638 ATOM 1183 CA ASN 455 22.638 ATOM 1184 CB ASN 455 22.638 ATOM 1185 CG ASN 455 22.638 ATOM 1186 CD1 ASN 455 22.638 ATOM 1187 ND2 ASN 455 22.638 ATOM 1188 C ASN 455 22.638 ATOM 1189 C ASN 455 22.695 ATOM 1180 C LEU 454 22.975 ATOM 1181 CA SER 456 26.572 50 ATOM 1191 CA SER 456 26.572 51 ATOM 1192 CB SER 456 26.572 52 ATOM 1193 CS SER 456 26.572 53 ATOM 1194 C SER 456 26.572 54 ATOM 1195 C SER 456 26.572 55 ATOM 1196 N GLY 457 27.876 ATOM 1199 N SER 456 26.4393 ATOM 1199 O SER 456 26.438	ATOM 1148 C SER 450 18.176 10.607 ATOM 1150 N ILE 451 18.231 11.632 ATOM 1151 CA ILE 451 19.032 12.810 ATOM 1152 CB ILE 451 19.032 12.810 ATOM 1153 CG2 ILE 451 20.019 14.929 ATOM 1155 CG1 ILE 451 17.553 14.475 ATOM 1155 CG1 ILE 451 17.553 14.475 ATOM 1156 C ILE 451 20.489 12.381 15 ATOM 1157 C ILE 451 20.489 12.381 15 ATOM 1158 N ILE 452 20.777 11.582 ATOM 1158 N ILE 452 22.359 11.120 ATOM 1158 N ILE 452 22.359 11.120 ATOM 1160 CB ILE 452 22.3660 10.155 ATOM 1161 CG2 ILE 452 22.3660 10.155 ATOM 1161 CG2 ILE 452 22.718 10.949 ATOM 1163 CD1 ILE 452 22.768 10.060 ATOM 1164 C ILE 452 22.768 10.060 ATOM 1165 C ILE 452 22.768 10.060 ATOM 1166 CB ILE 452 22.768 10.060 ATOM 1167 CA ILE 453 21.779 9.497 25 ATOM 1166 CB ILE 453 21.799 9.497 ATOM 1168 CB LEU 453 21.799 9.497 ATOM 1168 CB LEU 453 21.799 9.497 ATOM 1169 CG LEU 453 21.799 9.497 ATOM 1169 CG LEU 453 21.984 8.768 ATOM 1170 CD1 LEU 453 22.962 9.687 ATOM 1171 CD2 LEU 453 22.962 9.501 ATOM 1171 CD2 LEU 453 22.962 9.501 ATOM 1171 CD2 LEU 453 22.962 9.501 ATOM 1171 CD2 LEU 453 19.328 6.535 ATOM 1172 C LEU 453 19.328 6.535 ATOM 1173 C LEU 454 21.220 10.687 ATOM 1176 CB LEU 454 21.220 10.687 ATOM 1177 CG LEU 454 19.037 10.478 ATOM 1178 CD1 LEU 454 19.037 10.478 ATOM 1179 CD2 LEU 454 19.037 10.478 ATOM 1179 CD2 LEU 454 19.037 10.478 ATOM 1180 C LEU 454 19.037 10.478 ATOM 1181 C LEU 454 19.037 10.478 ATOM 1180 C LEU 454 19.037 10.478 ATOM 1181 C LEU 454 19.037 10.478 ATOM 1180 C BASN 455 23.288 13.146 40 ATOM 1181 C LEU 454 22.296 11.793 ATOM 1180 C BASN 455 23.604 14.236 ATOM 1181 C LEU 454 22.996 14.998 ATOM 1180 C SER 456 25.268 12.569 ATOM 1180 C SER 456 25.267 19.995 ATOM 1180 C SER 456 25.267 19.995 ATOM 1190 N SER 456 25.269 12.569 ATOM 1191 CA SER 456 25.871 9.953 ATOM 1192 CB SER 456 25.871 9.953 ATOM 1193 CB SER 456 25.871 19.953 ATOM 1194 C SER 456 25.871 19.953 ATOM 1195 CA SER 456 25.871 19.953 ATOM 1196 C SER 456 25.871 19.953 ATOM 1199 C SER 456 2	ATOM 1148 C SER 450 18.176 10.607 17.618 ATOM 1149 O SER 450 18.763 10.598 16.535 ATOM 1150 N ILE 451 18.231 11.632 18.463 ATOM 1151 CA ILE 451 19.032 12.810 18.155 10 ATOM 1152 CB ILE 451 18.950 13.850 19.291 110 ATOM 1153 CG2 ILE 451 18.950 13.850 19.291 ATOM 1155 CD1 ILE 451 17.553 14.475 19.322 ATOM 1156 C ILE 451 20.489 12.381 17.989 15 ATOM 1157 O ILE 451 21.161 12.771 17.034 ATOM 1158 N ILE 452 20.977 11.582 18.931 ATOM 1150 CB ILE 452 22.359 11.120 18.880 ATOM 1160 CB ILE 452 22.359 11.120 18.880 ATOM 1161 CG2 ILE 452 22.578 10.060 22.624 ATOM 1163 CD1 ILE 452 22.768 10.060 22.624 ATOM 1163 CD1 ILE 452 22.768 10.060 22.624 ATOM 1164 C ILE 452 22.768 10.060 22.624 ATOM 1165 C ILE 452 22.656 10.419 17.557 ATOM 1166 N LEU 453 21.994 8.768 15.935 ATOM 1166 CB ILE 452 23.650 10.708 16.885 ATOM 1167 CA LEU 453 21.994 8.768 15.935 ATOM 1168 CB LEU 453 20.843 7.764 15.733 ATOM 1168 CB LEU 453 20.843 7.764 15.733 ATOM 1167 CA LEU 453 21.815 6.165 14.107 ATOM 1170 CD1 LEU 453 21.815 6.165 14.107 ATOM 1171 CD2 LEU 453 22.992 9.687 14.717 ATOM 1173 O LEU 453 21.815 6.165 14.107 ATOM 1175 CA LEU 453 22.992 9.687 14.717 ATOM 1176 CD LEU 453 21.815 6.165 14.107 ATOM 1177 CD LEU 453 22.992 9.687 14.717 ATOM 1178 CD LEU 454 17.405 11.926 12.955 ATOM 1176 CB LEU 454 17.405 11.926 12.955 ATOM 1178 CD LEU 454 17.405 11.926 12.955 ATOM 1178 CD LEU 454 17.405 11.926 12.955 ATOM 1180 C LEU 454 17.405 11.926 12.955 ATOM 1181 C LEU 454 17.405 11.926 12.955 ATOM 1182 CB ASN 455 22.678 13.148 12.513 ATOM 1183 CA ASN 455 22.678 13.148 12.513 ATOM 1186 CB LEU 454 17.405 11.926 12.955 ATOM 1180 C LEU 454 17.405 11.926 11.957 ATOM 1180 C LEU 454 17.405 11.926 11.957 ATOM 1180 C LEU 454 17.405 11.926 11.957	ATOM

	5	MOTA	1205	С	VAL	458	27.472	15.801	9.817	1.00	46.72
		ATOM	1206	0	VAL	458	27.391	16.265	8.681	1.00	47.08
		ATOM	1207	N	TYR	459	28.432	16.144	10.670	1.00	50.74
		ATOM	1208	CA	TYR	459	29.456	17.114	10.301	1.00	55.43
		MOTA	1209	СВ	TYR	459	29.647	18.129	11.433	1.00	56.62
	10	ATOM .	1210	CG	TYR	459	28.375	18.870	11.781	1.00	59.34
		ATOM	1211	CD1	TYR	459	28.094	19.229	13.095	1.00	60.73
		ATOM	1212	CE1	TYR	459	26.900	19.867	13.429	1.00	62.14
		ATOM	1213	CD2	TYR	459	27.430	19.175	10.795	1.00	62.16
		ATOM	1214	CE2	TYR	459	26.234	19.812	11.118	1.00	63.83
	15	ATOM	1215	CZ	TYR	459	25.976	20.154	12.437	1.00	62.88
	1.5	ATOM	1216	OH	TYR	459	24.790	20.764	12.767	1.00	62.56
		ATOM	1217	C	TYR	459	30.791	16.489	9.928	1.00	57.21
						459	31.793	17.189	9.798	1.00	56.86
		ATOM	1218	0	TYR		30.800		9.750	1.00	59.22
	20	ATOM	1219	И	THR	460		15.173			
	20	ATOM	1220	CA	THR	460	32.018	14.474	9.366	1.00	62.25
		ATOM	1221	СВ	THR	460	32.502	13.531	10.499	1.00	63.07
		ATOM	1222	OG1	THR	460	33.474	12.613	9.983	1.00	67.80
		ATOM	1223	CG2	THR	460	31.344	12.759	11.084	1.00	60.23
		ATOM	1224	С	THR	460	31.759	13.678	8.086	1.00	63.54
	25	ATOM	1225	0	THR	460	32.457	12.708	7.782	1.00	63.91
Ď		ATOM	1226	N	PHE	461	30.758	14.113	7.326	1.00	65.06
เป็		ATOM	1227	CA	PHE	461	30,395	13.446	6.080	1.00	67.00
Ü		MOTA	1228	CB	PHE	461	29.052	13.975	5.563	1.00	66.48
		ATOM	1229	CG	PHE	461	27.867	13.147	5.991	1.00	66.30
, <u>/</u>	30	ATOM	1230	CD1	PHE	461	26.657	13.754	6.312	1,00	65.58
		ATOM	1231	CD2	PHE	461	27.963	11.760	6.085	1.00	66.41
<u> </u>		ATOM	1232	CE1	PHE	461	25.562	12.996	6.723	1.00	65.45
`·J		ATOM	1233	CE2	PHE	461	26.872	10.994	6.494	1.00	66.83
ži Jeta		ATOM	1234	CZ	PHE	461	25.670	11.616	б.814	1.00	65.12
	35	ATOM	1235	С	PHE	461	31.463	13.604	5.004	1.00	68.38
Щ		ATOM	1236	0	PHE	461	32.181	14.606	4.962	1.00	68.98
W		ATOM	1237	N	LEU	462	31.542	12.601	4.132	1.00	69.57
		ATOM	1238	CA	LEU	462	32.511	12.545	3.039	1.00	71.68
Ü		ATOM	1239	CB	LEU	462	32.080	11.475	2.030	1.00	71.00
١ <u>D</u>	40	ATOM	1240	С	LEU	462	32.810	13.856	2.304	1.00	72.40
		ATOM	1241	0	LEU	462	33.725	14.590	2.680	1.00	73.45
		ATOM	1242		SER	463	32.043	14.141	1.253	1.00	73.22
	•	ATOM	1243	CA	SER	463	32.262	15.343	0.449	1.00	72.61
		ATOM	1244	CB	SER	463	32.544	14.942	-1.005	1,00	73.38
	45	ATOM	1245	C	SER	463	31.126	16.362	0.491	1.00	71.17
		ATOM	1246	Ō	SER	463	30.455	16.528	1.511	1.00	72.05
		ATOM	1247	N	SER	464	30.932	17.049	-0.633	1.00	68.86
		ATOM	1248	CA	SER	464	29.892	18.063	-0.759	1.00	66.06
		ATOM	1249	CB	SER	464	30.514	19.457	-0.704	1.00	66.26
	50	ATOM	1250	C	SER	464	29.108	17.887	-2.060	1.00	63.72
	30	ATOM	1251	0	SER	464	28.657	18.862	-2.662	1.00	62.88
		ATOM	1252	N	THR	465	28.954	16.638	-2.493	1.00	60.93
		ATOM	1253	CA	THR	465	28.205	16.343	-3.709	1.00	57.47
		ATOM	1254			465	28.185	14.824	-4.004	1.00	57.80
	55	ATOM	1255	CB OG1	THR THR	465	27.525	14.135	-2.934	1.00	54.75
	در								-2.934 -4.149	1.00	57.49
		ATOM	1256	CG2	THR	465	29.606	14.287			
		ATOM	1257	C	THR	465	26.767	16.824	-3.523	1.00	54.93
		ATOM	1258	0	THR	465	26.349	17.129	-2.407	1.00	54.26
	60	ATOM	1259	N	LEU	466	26.013	16.892	-4.614	1.00	51.85
	60	ATOM	1260	CA	LEU	466	24.625	17.330	-4.550 5.056	1.00	49.25
		ATOM	1261	CB	LEU	466	24.013	17.349	-5.956	1.00	48.74
		ATOM	1262	CG	LEU	466	22.953	18.415	-6.253	1.00	48.72

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	5	ATOM	1263	CD1	LEU	466	22.156	18.002	-7.482	1.00	48.32
		ATOM	1264	ÇD2	LEU	466	22.033	18.594	-5.057	1.00	48.14
		ATOM	1265	Ċ	LEU	466	23.817	16.397	-3.650	1.00	48.16
		ATOM	1266	O	LEU	466	22.961	16.845	-2.883	1.00	45.96
		ATOM	1267	N	LYS	467	24.093	15.099	-3.750	1.00	46.47
	10	ATOM	1268	CA	LYS	467	23.399	14.100	-2.947	1.00	47.45
		ATOM	1269	CB	LYS	467	23.802	12.693	-3.395	1.00	49.38
		ATOM	1270	CG	LYS	467	22.829	11.602	-2.974	1.00	52.70
		ATOM	1271	CD	LYS	467	23.561	10.301	-2.682	1.00	56.48
		ATOM	1272	CE	LYS	467	23.105	9.180	-3.604	1.00	59.54
	15	MOTA	1273	NZ	LYS	467	24.150	8.117	-3.732	1,60	61.22
	13	ATOM	1274	e	LYS	467	23.738	14.284	-1.472	1.60	46.89
		ATOM	1275	0	LYS	467	22.884	14.108	-0.604	1.00	46.06
		MOTA	1276	И	SER	468	24.989	14.644	-1.202	1.00	45.82
		ATOM	1277	CA	SER	468	25.457	14.854	0.160	1.00	46.82
	20	ATOM			SER	468			0.173	1.00	47.85
	20		1278	CB		468	26.976 27.407	15.050		1.00	55.73
		ATOM	1279	og	SER			15.537	1.435	-	44.24
		ATOM	1280	C	SER	468	24.778	16.063	0.796	1,00	42.98
		ATOM	1281	0	SER	468	24.473	16.062	1.983	1.00	
	25	ATOM	1282	N	LEU	469	24.547	17.100	-0.011	1.00	42.33 40.42
	23	ATOM	1283	CA	LEU	469	23,890	18.301	0.486	1.00	
·D		ATOM	1284	CB	LEU	469	24.002	19.427	-0.545 -0.849	1.00	44.47
IU		ATOM	1285	CG	LEU	469	25.438	19.874		1.00	46.70
Œ		MOTA	1286	CD1	LEU	469	25.514	20.477	-2.246	1.00	46.70
串	30	ATOM	1287	CD2	LEU	469	25.890	20.883	0.199 0.786	1.00	47.32 39.06
1	30	ATOM	1288	C	LEU	469	22.423	17.996		1.00	34.97
ė		ATOM ATOM	1289 1290	N O	LEU GLU	469 470	21.856 21.814	18.505 17.151	1.760 -0.046	1.00	35.46
· d									0.145	1.00	34.38
Ħ		MOTA MOTA	1291 1292	CA CB	GLU GLU	470 470	20.418 19.914	16.768 15.963	-1.052	1.00	38.02
	35	ATOM	1292	CG	GLU	470	19.914	16.773	-2.329	1.00	42.67
	33	MOTA	1293	CD	GLU	470	19.772	15.773	-3.509	1.00	48.30
ندا		ATOM	1295	OE1	GLU	470	19.539	14.716	-3.538	1.00	50.53
		ATOM	1296	OE2	GLU	470	18.666	16.463	-4.412	1.00	51.06
Q		MOTA	1297	C	GLU	470	20.290	15.916	1.403	1.00	34.37
Ď	40	ATOM	1298	0	GLU	470	19.321	16.035	2,157	1.00	32.60
	40	MOTA	1299	N	GLU	471	21.274	15.046	1.606	1.00	34.66
		ATOM	1300		GLU	471	21.274	14.162	2.766		35.68
		MOTA	1301		GLU	471	22.515	13.222	2.671	1.00	34.57
		ATOM	1301	CG	GLU	471	22.315	12.122	1.614	1.00	37.98
	45	ATOM	1302	CD		471	21.476	10.989	2.063	1.00	39.79
	43	ATOM	1303		GLU	471	20.268	11.027	1.743	1.00	41.12
		ATOM	1305		GLU	471	21.974	10.061	2.737	1.00	32.11
		ATOM	1305		GLU	471	21.374	14.983	4.052	1.00	34.79
		ATOM	1308		GLU	471	20.596	14.793	4.969	1.00	32.80
	50	ATOM	1307	N	LYS	472	22.358	15.898	4.112	1.00	33.93
	50	ATOM	1309		LYS	472	22.518	16.739	5.291	1.00	35.58
		ATOM		CB	LYS	472	23.683	17.710	5.097	1.00	39.11
		ATOM	1311		LYS	472	25.050	17.710	5.138	1.00	41.47
		ATOM	1312	CD	LYS	472	26.080	17.957	5.794	1.00	46.97
	55	ATOM	1313	CE	LYS	472	27.445	17.286	5.862	1.00	48.40
	JJ	ATOM	1314	NZ	LYS	472	27.850	16.702	4.547	1.00	51.55
		ATOM	1315	C	LYS	472	21.237	17.523	5.582	1.00	34.78
		ATOM		0	LYS	472	20.795	17.607	6.724	1.00	33.95
		ATOM	1317		ASP	472	20.793	18.097	4.545	1.00	33.47
	60	ATOM		CA	ASP	473	19.420	18.865	4.720	1.00	34.63
		ATOM	1319		ASP	473	18.923	19.404	3.380	1.00	37.21
		ATOM	1320	CG	ASP	473	17.654	20.221	3.522	1.00	43.24
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	5	ATOM	1321	OD1	ASP	473	16.559	19.687	3.230	1.00	45.20
		ATOM	1322	OD2	ASP	473	17.750	21.396	3.932	1.00	45.59
		ATOM	1323	C	asp	473	18.339	17.998	5.338	1.00	32.93
		MOTA	1324	0	ASP	473	17.642	18.416	6.264	1.00	32.87
		ATOM	1325	N	HIS	474.	18.199	16.784	4.827	1.00	32.74
	10	MOTA	1326	CA	HIS	474	17.185	15.882	5.343	1.00	32.21
		ATOM	1327	CB	HIS	474	17.185	14.575	4.568	1.00	32.79
		MOTA	1328	CG	HIS	474 .	16.047	13.675	4.924	1.00	36.22
		ATOM	1329	CD2	HIS	474	14.711	13.813	4.750	1,00	38.33
		MOTA	1330	ND1	HIS	474	16.227	12.456	5.542	1.00	38.97
	15	ATOM	1331	CE1	HIS	474	15.053	11.883	5.732	1.00	37.99
		ATOM	1332	NE2	HIS	474	14.116	12.686	5.261	1.60	37.43
		MOTA	1333	C	HIS	474	17.403	15.573	6.815	1.00	29.74
		ATOM	1334	0	HIS	474	16.460	15.543	7.596	1.00	29.90
		ATOM	1335	N	ILE	475	18.653	15.326	7.185	1.00	27.80
	20	ATOM	1336	CA	ILE	475	18.971	15.014	8.571	1.00	25.61
	~ •	ATOM	1337	CB	ILE	475	20.478	14.708	8.720	1.00	25.39
		ATOM	1338	CG2	ILE	475	20.877	14.713	10.193	1.00	27.17
		ATOM	1339	CG1	FLE	475	20.787	13.341	8.092	1.00	26.17
		ATOM	1340	CD1	ILE	475	22.258	13.071	7.849	1.00	27.07
	25	ATOM	1341	C	ILE	475	18.576	16.201	9.460	1.00	27.91
	~~	ATOM	1342	0	ILE	475	17.928	16,038	10.485	1.00	29.16
ıĎ		ATOM	1343	N	HIS	476	18.956	17.404	9.054	1.00	29.41
IU		ATOM	1344	CA	HIS	476	18.621	18.575	9.846	1.00	29.73
Ü		ATOM	1345	CB	HIS	476	19.342	19.796	9.281	1.00	32.27
114	30	ATOM	1346	CG	HIS	476	20.777	19.867	9.699	1.00	39.44
	50	ATOM	1347	CD2	HIS	476	21.355	19.707	10.915	1.00	39.81
4		ATOM	1348	ND1	HIS	476	21.809	20.067	8.808	1.00	39.79
		ATOM	1349	CE1	HIS	476	22.959	20.027	9.456	1.00	39.98
41		ATOM	1350	NE2	HIS	476	22.712	19.809	10.735	1.00	40.26
	35	ATOM	1351	C	HIS	476	17.120	18.810	9.948	1.00	31.40
ليا		ATOM	1352		HIS	476	16.636	19.336	10.951	1.00	29.79
لزا		ATOM	1353	N		477	16.374	18.396	8.929	1.00	31.82
		ATOM	1354	CA	ARG	477	14.929	18.570	8.956	1.00	31.53
ij		MOTA	1355	CB	ARG	477	14.343	18.376	7.557	1.00	34.95
.D	40	MOTA	1356	CG	ARG	477 .	14.425	19,627	6.700	1.00	40.46
	-	ATOM	1357	CD	ARG	477	13.698	19.445	5.370	1.00	45.22
		ATOM	1358	NE	ARG	477	14.107	20.456	4.399	1.00	53.05
		MOTA	1359	CZ	ARG	477	13.647	21.705	4.376	1.00	55.89
		ATOM	1360	NH1	ARG	477	12.756	22.106	5.274	1.00	56.17
	45	ATOM	1361	NH2	ARG	477	14.084	22.558	3.457	1.00	59.49
		ATOM	1362	C	ARG	477	14.310	17.582	9.931	1.00	30.70
		ATOM	1363	Ō	ARG	477	13.360	17.903	10.649	1.00	30.24
		ATOM	1364	N	VAL	478	14.863	16.375	9.972	1,00	29.67
		ATOM	1365	CA	VAL	478	14.351	15,369	10.887	1.00	29.68
	50	ATOM	1366	СВ	VAL	478	14.937	13.975	10.575	1.00	32.01
		ATOM		CG1	VAL	478	14.461	12,973	11.609	1.00	32.93
		ATOM	1368	CG2	VAL	478	14.506	13.528	9.169	1.00	31.00
		ATOM		C	VAL	478	14.696	15.774	12.316	1.00	29.81
		ATOM		0	VAL	478	13.860	15.677	13.220	1.00	30.25
	55	ATOM		N	LEU	479	15.929	16.232	12.516	1.00	28.81
		ATOM		CA	LEU	479	16.360	16.674	13.836	1.00	28.74
		ATOM	1373	СВ	LEU	479	17.799	17.210	13.779	1.00	26.65
		ATOM	1374	CG	LEU	479	18.910	16.152	13.853	1.00	26.05
		ATOM	1375	CD1	LEU	479	20.231	16.772	13.395	1.00	25.81
	60	ATOM	1376		LEU	479	19.028	15.603	15.277	1.00	25.34
		ATOM	1377		LEU	479	15.411	17.777	14.313	1.00	29.54
		ATOM	1378		LEU	479	14.997	17.786	15.472	1.00	29.00
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	5	MOTA	1379	N	ASP	480	15.076	18.703	13.415	1.00	31.52
		ATOM	1380	CA	ASP	480	14.162	19.800	13.741	1.00	33.84
		ATOM	1381	CB	ASP	480	13.943	20.712	12.528	1.00	34.37
		ATOM	1382	CG	ASP	480	15.055	21.743	12.345	1.00	36.26
		MOTA	1383	OD1	ASP	480	15.119	22.354	11.257	1.00	36.56
	10	MOTA	1384	OD2	ASP	480	15.860	21.951	13.274	1.00	34.19
	. •	ATOM	1385	C	ASP	480	12.818	19.222	14.174	1.00	33.48
		ATOM	1386	0	ASP	480	12.186	19.724	15.105	1.00	33.89
		ATOM	1387	Ŋ	LYS	481	12.379	18.161	13.498	1.00	33.90
		*							13.839	1.00	32.97
	1.5	ATOM	1388	CA	LYS	481	11.106	17.536			
	15	ATOM	1389	CB	LYS	481	10.719	16.489	12.784	1.00	34.66
		ATOM	1390	C	LYS	481	11.164	16.895	15.225	1.00	33.57
		MOTA	1391	0	LYS	481	10.167	16.869	15.943	1.00	35.37
		MOTA	1392	N	ILE	482	12.328	16.377	15.607	1.00	32.71
		MOTA	1393	CA	ILE	482	12.457	15.764	16.922	1.00	31.60
	20	ATOM	1394	CB	ILE	482	13.743	14.913	17.028	1.00	32.65
		MOTA	1395	CG2	ILE	482	13.877	14.338	18.436	1.00	32.50
		ATOM	1396	CG1	ILE	482	13.697	13.785	15.995	1.00	32.72
		ATOM	1397	CD1	ILE	482	14.978	12.969	15.908	1.00	33.37
		ATOM	1398	C	ILE	482	12.456	16.853	17.994	1.00	31.69
IJ	25	ATOM	1399	0	ILE	482	11.946	16.649	19.097	1.00	29.98
Ö		MOTA	1400	N	THR	483	13.027	18.012	17.679	1.00	31.33
เป็		ATOM	1401	CA	THR	483	13.022	19.109	18.644	1.00	31.71
		ATOM	1402	СВ	THR	483	13.756	20.351	18.109	1.00	32.92
Ü		MOTA	1403	OG1	THR	483	15.111	20.012	17.788	1.00	29.99
	30	ATOM	1404	CG2	THR	483	13.756	21.452	19.160	1.00	30.47
V		ATOM	1405	C	THR	483	11.559	19.483	18.920	1.00	32.85
a		ATOM	1406	Ō	THR	483	11.146	19.598	20.070	1.00	31.83
		ATOM	1407	N	ASP	484	10.785	19.656	17.851	1.00	31.91
21		ATOM	1408	CA	ASP	484	9.369	20.003	17.965	1.00	34.15
	35	ATOM	1409	CB	ASP	484	8.708	20.013	16.591	1.00	37.41
لنا	J.J	ATOM	1410	CG	ASP	484	9.270	21.080	15.680	1,00	42.02
		ATOM	1411	OD1	ASP	484	9.871	22.045	16.198	1.00	43.26
		ATOM	1412	OD2	ASP	484	9.106	20.952	14.445	1.00	42.49
0.0		ATOM	1413	C	ASP	484	8.657	18.985	18.840	1.00	33.16
Ü	40	ATOM	1414	0	ASP	484	7.830	19.339	19.676	1.00	34.86
	40	ATOM	1415	N	THR	485	8.996	17.715	18.646	1.00	33.91
						485	8.396	16.635	19.414	1.00	34.41
		ATOM	1416	CA	THR						
		ATOM	1417	CB	THR	485	8.875	15.268	18.885	1.00	33.58
	45	ATOM	1418	OG1	THR	485	8.400	15.094	17.542	1.00	37.04
	45	MOTA	1419	CG2	THR	485	8.347	14.138	19.751	1.00	30.89
		ATOM	1420	C	THR	485	8.708	16.757	20.903	1.00	35.15
		ATOM	1421	0	THR	485	7.818	16.600	21.744	1.00	31,99
		ATOM	1422	N	LEU	486	9.966	17.046	21.229	1.00	33.77
		ATOM	1423	CA	LEU	486	10.368	17.192	22.621	1.00	34.31
	50	MOTA	1424	CB	LEU	486	11.879	17.448	22.721	1.00	32.00
		ATOM	1425	CG	LEU	486	12.776	16.201	22.754	1.00	34.99
		MOTA	1426	CD1	LEU	486	14.233	16.613	22.521	1.00	32.65
		ATOM	1427	CD2	LEU	486	12.635	15.481	24.105	1.00	29.90
		ATOM	1428	C	LEU	486	9.597	18.348	23.256	1.00	34.87
	55	MOTA	1429	0	LEU	486	9.078	18.225	24.362	1.00	35.85
	•	ATOM	1430	N	ILE	487	9.513	19.469	22.548	1.00	35.59
		ATOM	1431	CA	ILE	487	8.787	20.625	23,064	1.00	36.79
		ATOM	1432	CB	ILE	487	8.890	21.826	22.095	1.00	37.32
		MOTA	1433	CG2	ILE	487	7.833	22.884	22.443	1.00	40.19
	60	ATOM	1434	CG1	ILE	487	10.292	22.443	22.181	1.00	36.00
		ATOM	1435	CD1	ILE	487	10.635	23.041	23.544	1.00	33.58
		ATOM	1436	C	ILE	487	7.315	20.257	23.276	1.00	38.56
				-		-5,	7.313	,	32.270		

	5	MOTA	1437	0	ILE	487	6.708	20.628	24.282	1.00	38.52
		ATOM	1438	N	HIS	488	6.749	19.521	22.326	1.00	40.33
		ATOM	1439	CA	HIS	488	5.357	19.096	22.427	1.00	42.29
		ATOM	1440	CB	HIS	488	4.962	18.282	21.197	1.00	44.26
		ATOM	1441	CG	HIS	488	3.612	17.647	21.305	1.00	47.75
	10	ATOM	1442	CD2	HIS	488	2.369	18.175	21.214	1.00	47.46
	••	ATOM	1443	ND1	HIS	488	3.440	16.298	21.534	1.00	51.09
		ATOM	1444	CE1	HIS	488	2.148	16.023	21.577	1.00	51.15
								17.144	21.377		50.22
		ATOM	1445	NE2	HIS	488	1.477			1.00	
•	1.5	ATOM	1446	C	HIS	488	5.154	18.254	23.685	1.00	42.55
	15	ATOM	1447	0	HIS	488	4.233	18.498	24.467	1.00	43.02
		ATOM	1448	N	LEU	489	6.022	17.266	23.879	1.00	39.91
		MOTA	1449	CA	LEU	489	5.936	16.399	25.048	1.00	39.93
		MOTA	1,450	CB	LEU	489	7.087	15.396	25.048	1.00	38.83
		MOTA	1451	CG	LEU	489	6.961	14.242	24.056	1.00	39.31
	20	ATOM	1452	CD1	LEU	489	8.259	13.456	24.027	1.00	39.01
		ATOM	1453	CD2	LEU	489	5.799	13.345	24.459	1.00	41.98
		ATOM	1454	C	LEU	489	5.973	17.203	26.339	1.00	40.24
		ATOM	1455	0	LEU	489	5.267	16.888	27.298	1.00	38.72
		ATOM	1456	N	MET	490	6.798	18.246	26.353	1.00	39.94
	25	ATOM	1457	CA	MET	490	6.939	19.102	27.522	1.00	41.50
		ATOM	1458	СВ	MET	490	8.208	19.953	27.394	1.00	39.15
Ĵ		ATOM	1459	CG	MET	490	9.495	19.169	27.608	1.00	41.69
IV		ATOM	1460	SD	MET	490	10.978	20.106	27.161	1.00	35.76
ij		ATOM	1461	CE	MET	490	12.178	18.775	27.056	1.00	39.22
4.	30	ATOM	1462	CE	MET	490	5.718	20.004	27.717	1,00	42.33
اليه:	ΣŲ			0		490	5.716	20.004	28.848	1.00	41.09
4		ATOM	1463		MET						
1		ATOM	1464	N	ALA	491	5.162	20.498	26.616	1.00	43.15
51		ATOM	1465	CA	ALA	491	3.983	21.351	26.693	1.00	43.79
	2.5	MOTA	1466	CB	ALA	491	3.622	21.879	25.311	1.00	43.93
زرا	35	ATOM	1467	С	ALA	491	2.841	20.510	27.251	1.00	46.16
ليا		MOTA	1468	0	ALA	491	2.073	20.967	28.095	1.00	44.69
ويون ويون		ATOM	1469	N	LYS	492	2.752	19.268	26.783	1.00	46.29
		ATOM	1470	CA	LYS	492	1.711	18.351	27.222	1.00	49,90
Ď	_	MOTA	1471	CB	LYS	492	1.772	17.053	26.411	1.00	50.03
Ð	40	ATOM	1472	CG	LYS	492	1.087	17.135	25.062	1.00	53.81
		ATOM	1473	CD	LYS	492	-0.002	16.084	24.930	1.00	59.00
		ATOM	1474	CE	LYS	492	-0.988	16.453	23.827	1.00	61.85
		ATOM	1475	NZ	LYS	492	-1.351	15.281	22.976	1.00	62.89
		ATOM	1476	С	LYS	492	1.841	18.025	28.701	1.00	51.15
	45	ATOM	1477	0	LYS	492	0.845	17.784	29.379	1.00	53.37
		ATOM	1478	N	ALA	493	3.072	18.012	29.199	1.00	50.15
		ATOM	1479	CA	ALA	493	3.321	17.706	30.600	1.00	49.17
		ATOM	1480		ALA	493	4.777	17.314	30.794	1.00	
		ATOM	1481		ALA	493	2.971	18.885	31.501	1.00	49.36
	50	ATOM	1482		ALA	493	3.089	18.799	32.723	1.00	51.57
	50	ATOM	1483		GLY	494	2.554	19.989	30.893	1.00	48.61
		ATOM	1484		GLY	494	2.185	21.159	31.671	1.00	46.92
		ATOM	1485		GLY	494	3.322	22.107	32.006	1.00	45.46
		ATOM	1486				3.226	22.921	32.919	1.00	43.58
	55				GLY	494					
	رر	ATOM	1487		LEU	495	4.431	22.009	31.284	1.00	44.81
		ATOM	1488		LEU	495	5.555	22.899	31.540	1.00	
		MOTA	1489		LEU	495	6.847	22.293	30.988	1.00	
		ATOM	1490		LEU	495	7.712	21.459	31.936	1.00	40.99
	60	ATOM	1491		LEU	495	7.022	20.156	32.260	1.00	44.70
	60	ATOM	1492		LEU	495	9.072	21.189	31.270	1.00	
		ATOM	1493		LEU	495	5.278		30.847	1.00	
		ATOM	1494	0	LEU	495	4.664	24.258	29.778	1.00	42.49
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	5	ATOM	1495	N	THR	496	5.718	25.324	31.452	1.00	42.73
		ATOM	1496	CA	THR	496	5.521	26.636	30.845	1.00	43.56
		ATOM	1497	CB	THR	496	5.841	27.767	31.829	1.00	46.09
		ATOM	1498	OGÍ	THR	496	7.222	27.688	32.208	1.00	43.92
		ATOM	1499	CG2	THR	496	4.965	27.662	33.064	1.00	45.63
	10	MOTA	1500	C	THR	496	6.471	26.764	29.660	1.00	45.54
		MOTA	1501	0	THR	496	7.370	25.939	29.488	1.00	43.39
		MOTA	1502	N	LEU	497	6.280	27.800	28.849	1.00	45.02
		ATOM	1503	CA	LEU	497	7.135	28.020	27.688	1.00	45.12
		ATOM	1504	CB	LEU	497	6.710	29.286	26.944	1.00	46.62
	15	ATOM	1505	CG	LEU	497	5.933	29.080	25.640	1.00	50.20
		ATOM	1506	CD1	LEU	497	5.886	30.397	24.875	1.00	50.95
		ATOM	1507	CD2	LEU	497	6.589	27.990	24.798	1.00	50.91
		ATOM	1508	C	LEU	497	8.599	28.135	28.101	1.00	44.94
		ATOM	1509	Ō	LEU	497	9.474	27.516	27.493	1.00	45.03
	20	ATOM	1510	N .	GLN	498	8.862	28.927	29.137	1.00	41.14
	-	ATOM	1511	CA	GLN	498	10.221	29.101	29.627	1.00	40.54
		ATOM	1512	CB	GLN	498	10.246	30.140	30.743	1.00	43.82
		ATOM	1513	CG	GLN	498	11.585	30.270	31.437	1.00	43.37
		ATOM	1514	CD	GLN	498	11.539	31.260	32.584	1.00	47.03
	25	ATOM	1514	OE1	GLN	498	10,565	31.308	33.332	1.00	49.18
	23					498		32.054	32.727	1.00	45.30
٠Ď		ATOM	1516	NE2	GLN		12.591		30.145	1.00	39.39
IU		ATOM	1517	C	GLN	498	10.777	27.773		1.00	35.05
ij.		ATOM	1518	0	GLN	498	11.923	27.422	29.866		
	30	ATOM	1519	N	GLN	499	9.965	27.040	30.902	1.00	36.49
-t -t -j	30	ATOM	1520	CA	GLN	499	10.391	25.748	31.434	1.00	36.91
14		ATOM	1521	CB	GLN	499	9.314	25.155	32.344	1.00	38.84
1			1522	CG	GLN	499	9.155	25.825	33.703	1.00	41.33
#!		MOTA	1523	CD	GLN	499	8.039	25.187	34.512	1.00	42.74
5		ATOM	1524	OE1	GLN	499	7.027	24.760	33.955	1.00	45.44
IJ	35	MOTA	1525	NE2	GLN	499	8.222	25.107	35.829	1.00	43.48
IJ		ATOM	1526	C	GLN	499	10.655	24.773	30.285	1.00	35.03
		ATOM	1527	0	GLN	499	11.446	23.832	30.422	1.00	36.59
!æ€ . #1		ATOM	1528	N	GLN	500	9.980	24.994	29.162	1.00	34.14
Q Q		ATOM	1529	CA	GLN	500	10.136	24.138	27.990	1.00	34.65
₩	40	ATOM	1530	CB	GLN	500	9.042	24.436	26.958	1.00	33.90
		ATOM	1531	CG	GLN	500	7.672	23.872	27.315	1.00	36.62
		ATOM	1532	CD	GLN	500	6.558	24.419	26.435	1.00	40.17
		ATOM	1533	OE1	GLN	500	6.660	24.417	25.207	1.00	40.22
		MOTA	1534	NE2	GLN	500	5.482	24.886	27.064	1.00	41.82
	45	ATOM	1535	C	GLN	500	11.511	24,350	27.358	1.00	34.96
		ATOM	1536	0	GLN	500	12.256	23.387	27.124	1.00	30.79
		ATOM	1537	N	HIS	501	11.835	25.612	27.078	1.00	34.21
		ATOM	1538	CA	HIS ,	501	13.117	25.966	26.480	1.00	37.42
		ATOM	1539	CB	HIS '	501	13.195	27.476	26.246	1.00	43.08
	50	ATOM.	1540	CG	HIS	501	12.043	28.027	25.468	1.00	51.13
		ATOM	1541	CD2	HIS	501	11.534	27.678	24.263	1.00	53.05
		ATOM	1542	ND1	HIS	501	11.264	29.068	25.926	1.00	54.54
		ATOM	1543	CE1	HIS	501	10.325	29.337	25.037	1.00	54.36
		ATOM	1544	NE2	HIS	501	10.466	28.508	24.018	1.00	55.19
	55	ATOM	1545	C	HIS	501	14.255	25.543	27.395	1.00	35.79
	J J	ATOM	1546	0	HIS	501	15.271	24.996	26.945	1.00	36.20
			1547	N	GLN	502	14.086	25.799	28.685	1.00	33.90
		ATOM	1548	CA	GLN	502 502	15.110	25.438	29.650	1.00	32.18
		ATOM								1.00	35.84
	60	ATOM	1549	CB	GLN	502	14.740	25.977	31.033		32.66
	00	ATOM	1550	CG	GLN	502	14.787	27.498	31.113	1.00	
		ATOM	1551	CD	GLN	502	14.420	28.028	32.486	1.00	36.62
		ATOM	1552	OE1	GLN	502 ·	14.102	27.262	33.397	1.00	33.99

	5	MOTA	1553	NE2	GLN	502	14.462	29.348	32.640	1.00	36.22
		ATOM	1554	С	GLN	502	15.340	23.932	29.716	1.00	31.79
		ATOM	1,555	0	GLN	502	16.483	23.479	29.769	1.00	28.00
		ATOM	1556	N	ARG	503	14.266	23.146	29.705	1,00	30.99
		ATOM	1557	CA	ARG	503	14.436	21.704	29.779	1.00	29.91
	10	ATOM	1558	CB	ARG	503	13.107	21.011	30.052	1.00	32.79
		ATOM	1559	CG	ARG	503	13.258	19.541	30.400	1.00	30.84
									30.798	1.00	30.61
		MOTA	1560	CD	ARG	503	11.930	18.935			
		MOTA	1561	NE	ARG	503	12.021	17.490	30.992	1.00	28.50
	1.5	MOTA	1562	CZ	ARG	503	12.489	16.908	32.093	1.00	29.00
	15	ATOM	1563	NH1	ARG	503	12.917	17.640	33.114	1.00	29.85
		ATOM	1564	NH2	ARG	503	12.512	15.583	32.180	1.00	33.73
		MOTA	1565	С	ARG	503	15.051	21.152	28.496	1.00	29.89
		MOTA	1566	0	ARG	503	15.895	20.259	28.548	1.00	29.69
		MOTA	1567	N	LEU	504	14.624	21.675	27.351	1.00	28.99
	20	MOTA	1568	CA	LEU	504	15.164	21.223	26.075	1.00	28.90
		ATOM	1569	CB	LEU	504	14.566	22.023	24.916	1.00	27.72
		ATOM	1570	CG	LEU	504	15.327	21.901	23.593	1.00	30.47
		ATOM	1571	CD1	LEU	504	15.252	20.453	23.117	1.00	31.74
		ATOM	1572	CD2	LEU	504	14.742	22.843	22.542	1.00	29.85
	25	ATOM	1573	C	LEU	504	16.681	21.419	26.089	1.00	29.69
		MOTA	1574	ō	LEU	504	17.439	20.536	25.672	1.00	26.38
۱Ð		ATOM	1575	N	ALA	505	17.114	22.585	26.564	1.00	28.51
U		ATOM	1576	CA	ALA	505	18.535	22.899	26.632	1.00	25.98
ľØ		ATOM	1577	CB	ALA	505	18.735	24.361	27.039	1.00	29.86
<u> </u> ==	30			CB			19.261	24.301	27.604	1.00	26.67
أيما	30	MOTA	1578		ALA	505					
1-4		ATOM	1579	0	ALA	505	20.340	21.462	27.290	1.00	25.54
اله.		MOTA	1580	N	GLN	506	18.677	21.771	28.784	1.00	23.59
į,		ATOM	1581	CA	GLN	506	19.299	20.907	29.785	1.00	27.67
Ö	0.5	MOTA	1582	CB	GLN	506	18.434	20.796	31.043	1.00	27.75
ן עו	35	ATOM	1583	CG	GLN	506	18.414	22.027	31.945	1.00	32.48
		MOTA	1584	CD	GLN	506	17.111	22.116	32.736	1.00	38.40
ليا		MOTA	1585	OE1	GLN	506	16.319	21.167	32.754	1.00	35.97
		MOTA	1586	NE2	GLN	506	16.879	23.257	33.386	1.00	38.07
Ď		MOTA	1587	C	GLN	506	19.500	19.509	29.217	1.00	24.53
ij	40	MOTA	1588	0	GLN	506	20.536	18.889	29.441	1.00	26.42
		ATOM	1589	N	LEU	507	18.505	19.017	28.484	1.00	26.78
		ATOM	1590	CA	LEU	507	18.578	17.678	27.902	1.00	26.18
		MOTA	1591	CB	LEU	507	17.225	17.286	27.295	1.00	31.48
		MOTA	1592	CG	LEU	507	16.052	16.961	28.231	1,00	32.59
	45	ATOM	1593	CD1	LEU	507	14.836	16.561	27.389	1.00	33.78
	-	ATOM	1594	CD2	LEU	507	16.431	15.838	29.174	1.00	30.18
		ATOM	1595	C	LEU	507	19.652	17.583	26.819	1.00	26.03
		ATOM	1596	0	LEU	507	20.421	16.621	26.771	1.00	27.28
		ATOM	1597	N	LEU	508	19.713	18.583	25.950	1.00	24.31
	50	MOTA	1598	CA	LEU	508	20.690		24.863	1.00	23.68
	50							18.557			
		ATOM	1599	CB	LEU	508	20.339	19.629	23.828	1.00	23.91
		MOTA	1600	CG	LEU	508	19.004	19.436	23.102	1.00	24.68
		MOTA	1601	CD1	LEU	508	18.905	20.416	21.945	1.00	25.11
		ATOM	1602	CD2	LEU	508	18.903	17.994	22.580	1.00	27.53
	55	MOTA	1603	C	LEU	508	22.127	18.727	25.341	1.00	22.93
		MOTA	1604	0	LEU	508	23.062	18.200	24.736	1.00	21.36
		ATOM	1605	N	LEU	509	22.302	19.451	26.441	1.00	23.86
		MOTA	1606	CA	LEU	509	23.637	19.661	26.991	1.00	26.28
		ATOM	1607	CB	LEU	509	23.598	20.735	28.095	1.00	28.08
	60	ATOM	1608	CG	LEU	509	23.578	22.214	27.672	1.00	33.98
		ATOM	1609	CD1	LEU	509	23.529	23.114	28.921	1.00	35.23
		ATOM	1610	CD2	LEU	509	24.818	22.525	26.856	1.00	30.48
							0.50				

	5	ATOM	1611	C	LEU	509	24.154	18.327	27.540	1.00	26.08
		ATOM	1612	0	LEU	509	25.354	18.068	27.547	1.00	23.92
		ATOM	1613	N	ILE	510	23.254	17.462	27.993	1.00	24.60
		MOTA	1614	CA	ILE	510	23.712	16.172	28.496	1.00	25.12
		MOTA	1615	CB	ILE	510	22.568	15.368	29.161	1.00	28.51
	10	ATOM	1616	CG2	ILE	510	23.051	13.965	29.506	1.00	31.67
	••	MOTA	1617	CG1	ILE	510	22.141	16.060	30.459	1.00	31.18
		ATOM	1618	CD1	ILE	510	20.712	15.749	30.882	1.00	37.16
		ATOM	1619	C	ILE	510	24.337	15.351	27.364	1.00	23.86
		ATOM	1620	0	ILE	510	25.225	14.534	27.600	1.00	24.14
	15										25.10
	15	ATOM	1621	N	LEU	511	23.889	15.586	26.133	1.00	
		ATOM	1622	CA	LEU	511	24.420	14.862	24.977	1.00	25.63
		MOTA	1623	CB	LEU	511	23.628	15.225	23.714	1.00	23.89
		MOTA	1624	CG	LEU	511	22.152	14.801	23.659	1.00	25,78
		ATOM	1625	CD1	LEU	511	21.648	14.920	22.224	1.00	26.55
	20	ATOM	1626	CD2	LEU	511	21.990	13.363	24.146	1.00	26.29
		ATOM	1627	C	LEU	511	25.912	15.152	24.771	1.00	27.10
		ATOM	1628	0	LEU	511	26.641	14.332	24.214	1.00	24.98
		ATOM	1629	N	SER	512	26.372	16.319	25.213	1.00	24.75
		ATOM	1630	CA	SER	512	27.787	16.637	25.076	1.00	23.68
	25	ATOM	1631	CB	SER	512	28.023	18.129	25.358	1.00	26.12
		ATOM	1632	OG	SER	512	29.271	18.327	25.986	1.00	37.17
		ATOM	1633	C	SER	512	28.594	15.765	26.050	1.00	23,15
ľŪ		ATOM	1634	0	SER	512	29.742	15.383	25.769	1.00	22.15
Ü		ATOM	1635	N	AHIS	513	27.993	15.456	27.192	0.50	21.53
 -	30	ATOM	1636	N	BHIS	513	28.008	15.453	27.202	0.50	20.99
V	50	ATOM	1637	CA	AHIS	513	28.645	14.624	28.196	0.50	21.79
4		ATOM	1638	CA	BHIS	513	28.696	14.607	28.174	0.50	20.94
14		ATOM	1639	CB	AHIS	513	27.920	14.776	29.536	0.50	23.59
21			1640	CB	BHIS	513	27.920	14.776	29.536	0.50	21.59
	35	MOTA				513	28,145	16.109	30.179		27.34
Ų	33	ATOM	1641	CG	AHIS					0.50	23.94
لدا		ATOM	1642	CG	BHIS	513	28.800	14.032	30.642		
Ö		MOTA	1643	CD2	AHIS	513	29.223	16.616	30.824	0.50	27.56
Ē		MOTA	1644	CD2	BHIS	513	30.095	14.211	31.001	0.50	24.22
Ü	40	ATOM	1645	ND1	AHIS	513	27.204	17.117	30.160	0.50	30.62
13.3	40	MOTA	1646	ND1	BHIS	513	28.285	13.105	31.523	0.50	27.00
		MOTA	1647	CE1	AHIS	513	27.693	18.185	30.763	0.50	26.32
		ATOM	1648		BHIS	513	29.225	12.740	32.376	0.50	24,40
		ATOM	1649		AHIS	513	28.916	17.908	31.176	0.50	28.30
		ATOM	1650	NE2	BHIS	513	30.334	13.396	32.081	0.50	25.54
	45	ATOM	1651	C	AHIS	513	28.666	13.164	27,738	0.50	19.81
		ATOM	1652	C	BHIS	513	28.720	13.171	27.652	0.50	19.42
		ATOM	1653	0	AHIS	513	29.601	12.426	28.026	0.50	22.45
		ATOM	1654	0	BHIS	513	29.707	12.457	27.809	0.50	22.62
		ATOM	1655	N	ILE	514	27.633	12.753	27.015	1.00	20.76
	50	ATOM	1656	CA	ILE	514	27.572	11.396	26.492	1.00	20.94
		ATOM	1657	CB	ILE	514	26.154	11.086	25.953	1.00	27.76
		ATOM	1658	CG2	ILE.	514	26.169	9.800	25.123	1.00	28.26
		ATOM	1659	CG1	ILE	514	25.185	10.965	27.139	1.00	27.91
		ATOM	1660	CD1	ILE	514	23.752	10.649	26.753	1.00	34.31
	55	ATOM	1661	C	ILE	514	28.641	11.256	25.398	1.00	20.66
	55	ATOM	1662	0	ILE	514	29.298	10.226	25.285	1.00	22.21
									24.589	1.00	
		ATOM	1663	N	ARG	515	28.825	12.294			
		ATOM	1664	CA	ARG	515	29.861	12.243	23.554	1.00	
	60	ATOM	1665	CB	ARG	515	29.861	13.535	22.726	1.00	
	60	ATOM	1666	CG	ARG	515	31.003	13.611	21.737	1.00	25.76
		ATOM	1667	CD	ARG	515	30.664	12.818	20.491	1,00	
		ATOM	1668	NE	ARG	515	29.580	13.482	19.788	1.00	36.24

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	5	ATOM	1669	CZ	ARG	515	29.615	13.827	18.508	1.00	38.91
		ATOM	1670	NH1	ARG	515	30.689	13.566	17.976	1.00	35.37
		ATOM	1671	NH2	ARG	515	28.579	14.459	17.971	1.00	40.27
		ATOM	1672	C	ARG	515	31.221	12.087	24.225	1.00	21.29
						•				1.00	
		ATOM	1673	0	ARG	515	32.068	11.305	23.795		20.06
	10	ATOM	1674	N	HIS	516	31.420	12.844	25.293	1.00	23.23
		ATOM	1675	ÇA	HIS	516	32.675	12.812	26.034	1.00	24.75
		atom	1676	CB	HIS	516	32.566	13.794	27.206	1.00	24.03
		ATOM	1677	CG	HIS	516	33.826	13.948	27.990	1.00	31.42
		ATOM	1678	CD2	HIS	516	34.138	13.587	29.257	1.00	35.87
	15	ATOM	1679	ND1	HIS	516	34.938	14.586	27.489	1.00	33.59
	1.5	ATOM	1680	CE1	HIS	516	35.882	14,613	28.411	1.00	35.70
									29.495	1.00	33.35
		MOTA	1681	NE2	HIS	516	35.422	14.013			
		ATOM	1682	C	HIS	516	32.965	11.390	26.537	1.00	24.02
		ATOM	1683	0	HIS	516	34.059	10.852	26.362	1.00	23.66
	20	MOTA	1684	N	MET	517	31.969	10.786	27.168	1.00	20.91
		ATOM	1685	CA	MET	517	32.109	9.436	27.684	1.00	24.21
		ATOM	1686	CB	MET	517	30.837	9.038	28.424	1.00	23,88
		ATOM	1687	CG	MET	517	30.607	9.903	29.652	1.00	26.32
		ATOM	1688	SD	MET	517	29.435	9.222	30.790	1.00	26,67
	25	ATOM	1689	CE	MET	517	27.914	9.390	29.807	1.00	23.26
	2.3			C		517	32.399	8.448	26.564	1.00	23.26
Ď		ATOM	1690		MET						
Ū		ATOM	1691	0	MET	517	33.213	7.547	26.728	1.00	26.08
Ü		ATOM	1692	N	SER	518	31,736	8.612	25.423	1.00	21.93
		ATOM	1693	CA	SER	518	31.977	7.717	24.301	1.00	23.08
	30	ATOM	1694	CB	SER	518	30.976	8.027	23.173	1.00	22.02
V		ATOM	1695	OG	SER	518	31.283	7.336	21.978	1.00	24.01
빠		ATOM	1696	C	SER	518	33.432	7.862	23.810	1.00	25.15
1		ATOM	1697	0	SER	518	34.111	6.866	23.532	1.00	22.94
21		ATOM	1698	N	ASN	519	33.923	9.097	23.713	1.00	22.42
	35	ATOM	1699	CA	ASN	519	35.295	9.309	23.260	1.00	21.87
(L)	ر د									1.00	24.46
id		ATOM	1700	CB	ASN	519	35.605	10.807	23.157		
		ATOM	1701	CG	ASN	519	34.864	11.469	22.021	1.00	29.02
Ö		ATOM	1702	OD1	asn	519	34.661	10.864	20.965	1.00	31.93
1 <u>1.1</u>		ATOM	1703	ND2	asn	519	34.459	12.715	22.224	1.00	28.81
ű	40	ATOM	1704	C	asn	519	36.292	8.643	24.201	1.00	21.46
		ATOM	1705	0	ASN	519	37.251	8.015	23.752	1.00	23.56
		ATOM	1706	N	LYS	520	36.070	8.782	25.504	1.00	23.23
		MOTA	1707	CA	LYS	520	36.964	8.171	26.488	1.00	26.35
		ATOM	1708	CB	LYS	520	36.581	8.592	27.912	1.00	27.53
	45	ATOM	1709	CG	LYS	520	36.618	10.101	28.174	1,00	33.74
	43	ATOM	1710	CD	LYS	520	37.962	10.710	27.811	1.00	42.09
										1.00	
		ATOM	1711	CE	LYS	520	39.047	10.307	28.802		43.97
		ATOM	1712	NZ	LYS	520	39.858	11.480	29.254	1.00	48.07
		MOTA	1713	C	LYS	520	36.899	6.644	26.376	1.00	27.71
	50	ATOM	1714	0	LYS	520	37.913	5.957	26.501	1.00	27.15
		ATOM	1715	N	GLY	521	35.704	6.117	26.141	1.00	25.02
		ATOM	1716	CA	GLY	521	35.562	4.676	26.003	1.00	26.67
		ATOM	1717	C	GLY	521	36.254	4.168	24.753	1.00	27.06
		ATOM	1718	ō	GLY	521	36.924	3.128	24.775	1.00	26.84
	55	ATOM	1719	N	AMET	522	36.101	4.893	23.650	0.50	25.87
	55										
		ATOM	1720	N	BMET	522	36.095	4.908	23.658	0.50	27.62
		ATOM	1721	CA	AMET	522	36.727	4.491	22.401	0.50	27.27
		ATOM	1722	CA	BMET	522	36.703	4.551	22.384	0.50	30.14
	4.5	MOTA	1723	CB	AMET	522	36.267	5.396	21.260	0,50	26.50
	60	MOTA	1724	CB	BMET	522 .	36.252	5.525	21.288	0.50	32.46
		MOTA	1725	CG	AMET	522	34.827	5.162	20.866	0.50	25.05
		ATOM	1726	CG	BMET	522	35.681	4.854	20.045	0.50	35.70
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	5	MOTA	1727	SD	AMET	522	34.585	3.587	20.020	0.50	27.07
		ATOM	1728	SD	BMET	522	34.197	5.672	19,408	0.50	40.01
		ATOM	1729	CE	AMET	522	33.142	4.017	19.031	0.50	31.29
		ATOM	1730	CE	BMET	522	34.733	6.085	17.745	0.50	42.12
		ATOM	1731	C	AMET	522	38.242	4.532	22.512	0.50	28.99
	10	ATOM	1732	Č	BMET	522	38.224	4.567	22.483	0.50	30.76
	10		1733	0	AMET	522	38.939	3.743	21.870	0.50	31.65
		MOTA						3.793			32,87
		ATOM	1734	0	BMET	522	38.905		21.807	0.50	
		MOTA	1735	N	GLU	523	38.749	5.452	23.324	1.00	30.85
		ATOM	1736	CA	GLU	523	40.190	5.576	23.513	1.00	34.09
	15	ATOM	1737	CB	GLU	523	40.515	6.725	24.480	1.00	35.59
		ATOM	1738	CG	GLU	523	40.658	8.079	23.784	1.00	43.35
		ATOM	1739	CD	GLU	523	40.560	9.265	24.739	1.00	46.63
		MOTA	1740	OE1	GLU	523	39.832	10.240	24.416	1,00	47.64
		MOTA	1741	OE2	GLU	523	41.212	9.225	25.805	1.00	43.09
	20	ATOM	1742	C	GLU	523	40.718	4.260	24.061	1.00	34.62
		MOTA	1743	0	GLU	523	41.733	3.747	23.596	1.00	33.87
		ATOM	1744	N	HIS	524	40.021	3.700	25.042	1.00	36.33
		ATOM	1745	CA	HIS	524	40.455	2.427	25.607	1.00	39.20
		ATOM	1746	CB	HIS	524	39.678	2.093	26.878	1.00	40.75
	25	ATOM	1747	CG	HIS	524	40.061	0.774	27.473	1.00	48.10
	20	ATOM	1748	CD2	HIS	524	41.192	0.376	28.104	1.00	48.56
٠Đ		ATOM	1749	ND1	HIS	524 524	39.247	-0.338	27.412	1.00	48.84
ľÜ				CE1		524		-1.362	27.978	1.00	50.19
(C)		MOTA	1750		HIS		39.859				
a4	20	ATOM	1751	NE2	HIS	524	41.041	-0.956	28.407	1.00	51.61
4	30	ATOM	1752	С	HIS	524	40.290	1.282	24.613	1.00	38.06
j.		ATOM	1753	0	HIS	524	41.226	0.521	24.371	1.00	38.18
W		ATOM	1754	N	LEU	525	39.101	1.162	24.034	1.00	36.96
II.		MOTA	1755	CA	LEU	525	38.831	0.093	23.084	1.00	37.40
ت		ATOM	1756	CB	LEU	525	37.416	0.241	22.514	1.00	35.89
	35	MOTA	1757	CG	LEU	525	36.268	0.107	23.527	1,00	33.17
L,		MOTA	1758	CD1	LEU	525	34,936	0.246	22.811	1.00	31.77
Ų		MOTA	1759	CD2	LEU	525	36.343	-1.240	24.238	1.00	35.92
		MOTA	1760	C	LEU	525	39.859	0.057	21.954	1.00	41.32
Ď		ATOM	1761	0	LEU	525	40.244	-1.015	21.487	1.00	40.76
ů	40	ATOM	1762	N	TYR	526	40.314	1.227	21.522	1.00	43.68
		MOTA	1763	CA	TYR	526	41.300	1.297	20.449	1.00	49.00
		ATOM	1764	CB	TYR	526	41.376	2.722	19.890	1,00	51.86
		ATOM	1765	CG	TYR	526	42.305	2.878	18.704	1,00	57.70
		ATOM	1766	CD1	TYR	526	41.835	2.718	17.400	1.00	58.93
	45	ATOM	1767	CE1	TYR	526	42.681	2.875	16.305	1.00	61.21
		ATOM	1768	CD2	TYR	526	43.653	3.200	18.883	1.00	58.58
		MOTA	1769	CE2	TYR	526	44.510	3.359	17.790	1.00	61.15
		ATOM		CZ	TYR	526	44.016	3.194	16.505	1.00	61.09
		ATOM								1.00	63.79
	50		1771	ОН	TYR	526	44.851	3.343	15.417		
	50	ATOM	1772	C	TYR	526	42.671	0.871	20.964	1.00	50.14
		ATOM		0	TYR	526	43.471	0.303	20.223	1.00	50.73
		MOTA	1774	N	SER	527	42.930	1.139	22.240	1.00	52.72
		ATOM	1775		SER	527	44.205	0.790	22.857	1.00	55.88
		ATOM	1776	CB	SER	527	44.351	1.516	24.199	1.00	55.00
	55	ATOM	1777	OG	SER	527	43.752	0.788	25.257	1.00	52.46
		MOTA	1778	С	SER	527	44.365	-0.718	23.054	1.00	60.39
		ATOM	1779	0	SER	527	45.398	-1.185	23.534	1.00	60.43
		ATOM	1780	N	MET	528	43.335	-1.472	22.678	1.00	63.86
		ATOM	1781	CA	MET	528	43.347	-2.929	22.788	1.00	67.95
	60	MOTA	1782	CB	MET	528	42.534	-3.381	24.008	1.00	67.85
		ATOM	1783	CG	MET	528	41.237	-2.606	24.222	1.00	70.10
		ATOM	1784	SD	MET	528	39.895	-3.569	24.983	1.00	71.70
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	5	MOTA	1785	CE	MET	528	39.231	-4.412	23.554	1.00	72.57
		MOTA	1786	C	MET	528	42.726	3.502	21.513	1.00	70.33
		ATOM	1787	0	MET	528	42.170	-4.602	21.513	1.00	72.43
		MOTA	1788	N	LYS	529	42.834	-2.739	20.428	1.00	71.53
		ATOM	1789	CA	LYS	529	42.274	-3.122	19.136	1.00	72.00
	10	ATOM	1790	CB	LYS	529	42.508	-2.004	18.119	1.00	71.30
		ATOM	1791	C	LYS	529	42.813	-4.439	18.587	1.00	72.47
		ATOM	1792	Ō	LYS	529	43.990	-4.762	18.751	1.00	70.37
		ATOM	1793	N	CYS	530	41.932	-5.191	17.930	1.00	74.48
		ATOM	1794	CA	CYS	530	42.279	-6.474	17.325	1.00	76.67
	15	ATOM	1795	CB	CYS	530	41.004	-7.245	16.952	1.00	77.23
	13	ATOM	1796	SG	CYS	530	40.447	-8.491	18.146	1.00	79.38
		ATOM	1797	C	CYS	530	43.098	-6.220	16.065	1.00	78.08
										1.00	
		ATOM	1798	0	CYS	530	43.241	-5.076	15.623		78.81
	20	ATOM	1799	N	LYS	531	43.637	-7.289	15.487	1.00	78.22
	20	ATOM	1800	CA	LYS	531	44.424	-7.187	14.267	1.00	78.15
		ATOM	1801	CB	LYS	531	45.600	-8.182	14.305	1.00	78.33
		ATOM	1802	С	LYS	531	43.508	-7.467	13.067	1.00	77.93
		ATOM	1803	0	LYS	531	42.549	-6.734	12.839	1.00	78.07
		MOTA	1804	N	asn	532	43.784	-8.539	12.328	1.00	77.80
	25	ATOM	1805	CA	ASN	532	42.984	-8.902	11.152	1.00	77.30
Ü		ATOM	1806	CB	asn	532	43.550	-10.166	10.521	1.00	77.55
ΙŪ		ATOM	1807	C	ASN	532	41.485	-9.082	11.423	1.00	77.34
Ü		ATOM	1808	0	ASN	532	40.904	-10.123	11.118	1.00	78.13.
		ATOM	1809	N	VAL	533	40.859	-8.055	11.988	1.00	76.13
, . -	30	ATOM	1810	CA	VAL	533	39.436	-8.098	12.280	1.00	73.77
		ATOM	1811	CB ·	VAL	533	39.155	-7.715	13.752	1.00	73.62
d		ATOM	1812	CG1	VAL	533	39.690	-6.327	14.047	1.00	73.13
ايور		ATOM	1813	CG2	VAL	533	37.662	-7.782	14.021	1.00	73.14
11		ATOM	1814	C	VAL	533	38.685	-7.143	11.352	1.00	72.97
1	35	ATOM	1815	0	VAL	533	39.024	-5.960	11.252	1.00	73.91
IJ		ATOM	1816	N	VAL	534	37.671	-7.666	10.666	1.00	70.02
لدا		ATOM	1817	CA	VAL	534	36.866	-6.867	9.747	1.00	66.70
٥		ATOM	1818	CB	VAL	534	35.619	-7.646	9.328	1.00	67.32
Ü		ATOM	1819	C	VAL	534	36.463	-5.541	10.393	1.00	63.87
Đ	40	ATOM	1820	ō	VAL	534	35.895	-5.519	11.486	1.00	63.55
		ATOM	1821	N	PRO	535	36.756	-4.415	9.719	1.00	60.92
		ATOM	1822	CD	PRO	535	37.424	-4.354	8.408	1.00	61.01
		ATOM	1823	CA	PRO	535	36.424	-3.077	10.229	1.00	56.83
		ATOM	1824		PRO	535	36.867	-2.135	9.107	1.00	58.70
	45			CB					7.893	1.00	61.55
	73	ATOM	1825	CG	PRO	535 535	37.023	-3.009			52.90
		ATOM	1826	C	PRO	535	34.944	-2.902	10.571	1.00	
		ATOM	1827	0	PRO	535	34.067	-3.461	9.908	1.00	52.01
		ATOM	1828	N	LEU	536	34.672	-2.120	11.610	1.00	48.60
	60	ATOM	1829	CA	LEU	536	33.301	-1.874	12.042	1.00	45.08
	50	MOTA	1830	CB	LEU	536	33.280	-0.796	13.128	1.00	44.35
		MOTA	1831	CG	LEU	536	32.267	-0.911	14.273	1.00	43.48
		ATOM	1832	CD1	LEU	536	31.919	0.490	14.745	1.00	43.41
		ATOM	1833	CD2	LEU	536	31.022	-1.654	13,835	1.00	39.55
		ATOM	1834	С	LEU	536	32.434	-1.433	10.871	1.00	43.58
	55	ATOM	1835	0	LEU	536	31.287	-1.862	10.734	1.00	42.14
		ATOM	1836	N	TYR	537	32.992	-0,575	10.024	1.00	43.02
		MOTA	1837	CA	TYR	537	32.269	-0.066	8.866	1.00	43.34
		ATOM	1838	CB	TYR	537	33.200	0.786	7.997	1.00	44.76
		ATOM	1839	CG	TYR	537	32.483	1.558	6.913	1.00	48.28
	60	ATOM	1840	CD1	TYR	537	32.190	0.964	5.687	1.00	48.46
		MOTA	1841	CE1	TYR	537	31.504	1.660	4.693	1.00	52.48
		ATOM	1842	CD2	TYR	537	32.073	2.875	7.123	1.00	49.99
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	5	MOTA	1843	CE2	TYR	537	31.383	3.584	6.135	1.00	53.73
		Mota	1844	CZ	TYR	537	31.100	2.967	4.924	1.00	54.01
		MOTA	1845	OH	TYR	537	30.401	3.648	3.952	1.00	5 5.96
		ATOM	1846	C	TYR	537	31.683	-1.199	8.032	1.00	43.15
		ATOM	1847	0	TYR	537	30.500	-1.191	7.696	1.00	41.54
	10	MOTA	1848	N	ASP	538	32.521	-2.175	7.702	1.00	44.67
		ATOM	1849	CA	ASP	538	32.097	-3.309	6.893	1.00	45.49
		ATOM	1850	CB	ASP	538	33.322	-4.126	6.479	1.00	51.32
		ATOM	1851	CG	ASP	538	34.361	-3.284	5.748	1.00	56.17
		MOTA	1852	OD1	ASP	538	35.436	-3.820	5.396	1.00	57,29
	15	ATOM	1853	OD2	ASP	538	34.097	-2.079	5.526	1.00	59.24
	13	*									
		ATOM	1854	C	ASP	538	31.071	-4.195	7.587	1.00	43.48
		MOTA	1855	0	ASP	538	30.177	-4.738	6.940	1.00	43.95
		ATOM	1856	N	LEU	539	31.193	-4.345	8.901	1.00	41.57
		ATOM	1857	CA	LEU	539	30.244	-5.157	9.654	1.00	39.11
	20	ATOM	1858	CB	LEU	539	30.734	-5.351	11.092	1.00	41.88
		ATOM	1859	CG	LEU	539	29.770	-6.065	12.044	1.00	46.11
		ATOM	1860	CD1	LEU	539	29.298	-7.379	11.423	1.00	46.99
		ATOM	1861	CD2	LEU	539	30.474	-6.319	13.377	1.00	45.76
		ATOM	1862	С	LEU	539	28.891	-4.451	9.651	1.00	36.38
	25	MOTA	1863	0	LEU	539	27.849	-5.070	9.436	1.00	35.74
		ATOM	1864	N	LEU	540	28.919	-3.146	9.894	1.00	35.50
Ð		ATOM	1865	CA	LEU	540	27.703	-2.336	9.903	1.00	35.59
IU		ATOM	1866	СВ	LEU	540	28.061	-0.877	10.219	1.00	37.63
Œ		ATOM	1867	CG	LEU	540	27.856	-0.252	11.605	1.00	40.28
ځدا	30	ATOM	1868	CD1	LEU	540	27.526	-1.299	12.645	1.00	38.55
V	50	ATOM	1869	CD2	LEU	540	29.114	0.506	11.985	1.00	41.04
		ATOM	1870	C	LEU	540	27.060	-2.415	8.510	1.00	35.50
'√	•	ATOM	1871	0	LEU	540	25.846	-2.585	8.371	1.00	33.21
Ei											
	35	ATOM	1872	N	LEU	541	27.892	-2.289	7.483	1.00	37.01
زيرا	33	ATOM	1873	CA	LEU	541	27.418	-2.340	6.101	1.00	38.51
لدا		ATOM	1874	CB	LEU	541	28.591	-2.152	5.145	1.00	39.67
		ATOM	1875	CG	LEU	541	28.301	-2.112	3.643	1.00	40.92
Ü		MOTA	1876	CD1	LEU	541	27.184	-1.130	3.348	1.00	42.44
ū	40	MOTA	1877	CD2	LEU	541	29.572	-1.716	2.908	1.00	44.18
'₩	40	ATOM	1878	С	LEU	541	26.723	-3.676	5.833	1.00	39.75
		ATOM	1879	0	LEU	541	25.616	-3.713	5.297	1.00	36.48
		ATOM	1880	N	GLU	542	27.366	-4.770	6.230	1.00	40.88
•		MOTA	1881	CA	GLU	542	26.790	-6.097	6.037	1.00	41.89
	•	ATOM	1882	CB	GLU	542	27.719	-7.170	6.620	1.00	44.11
	45	ATOM	1883	CG	GLU	542	27.010	-8.457	7.052	1.00	50.60
		ATOM	1884	CD	GLU	542	26.434	-9.245	5.887	1.00	55.80
		ATOM	1885	OE1	GLU	542	25.570	-10.117	6.130	1.00	58.81
		ATOM	1886	OE2	GLU	542	26.842	-8.996	4.728	1.00	57.19
		ATOM	1887	C	GLU	542	25.414	-6.195	6.691	1.00	41.58
	50	ATOM	1888	ō	GLU	542	24.472	-6.720	6.102	1.00	42.82
		ATOM	1889	N	MET	543	25.298	-5.686	7.915	1.00	40.09
		ATOM	1890	ÇA	MET	543	24.036	-5.731	8.634	1.00	36.43
		ATOM	1891	CB	MET	543	24.270	-5.424	10.111	1.00	39.95
		ATOM	1892	CG							
	55				MET	543	25,137	-6.459	10.808	1.00	41.95
	رر	ATOM	1893	SD	MET	543	24.918	-6.445	12.604	1.00	47.17
		ATOM	1894	CE	MET	543	25.324	-4.749	12.964	1.00	40,88
		ATOM	1895	С	MET	543	23.001	-4.769	8.072	1.00	35.02
•		ATOM	1896	0	MET	543	21.808	-5.073	8.048	1.00	35.31
	6 0	MOTA	1897	N	LEU	544	23.457	-3.605	7.629	1.00	32.90
	60	ATOM	1898	CA	LEU	544	22.559	-2.603	7.074	1.00	36.88
		ATOM	1899	CB	LEU	544	23.225	-1.226	7.111	1.00	34.51
		ATOM	1900	CG	LEU	544	23.268	-0.562	8.490	1.00	31.94
							0.55				

	5	ATOM	1901	CD1	LEU	544	24.284	0.564	8.478	1.00	32.27
		ATOM	1902	CD2	LEU	544	21.897	-0.029	8.846	1.00	29.02
		MOTA	1903	С	LEU	544 °	22.148	-2.941	5.640	1.00	38,94
		MOTA	1904	0	LEU	544	20.971	-2.842	5.294	1.00	39.52
		ATOM	1905	N	ASP	545	23.118	-3.338	4.817	1.00	41.05
	10	ATOM	1906	CA	ASP	545	22.850	-3.685	3.418	1.00	40.78
	• •	ATOM	1907	СВ	ASP	545	24.159	-3.780	2.620	1.00	37.75
		MOTA	1908	CG	ASP	545	23.922	-3.937	1.120	1.00	35.19
		ATOM	1909	OD1	ASP	545	24.881	-4.265	0.380	1.00	33.48
		ATOM	1910	OD2	ASP	545	22.768	-3.734	0.691	1.00	31.33
	15	ATOM	1911	C	ASP	545	22.116	-5.015	3.349	1.00	42.87
	13	MOTA	1912	0	ASP	545	22.681	-6.030	2.929	1.00	44.32
		ATOM	1913	Ŋ	ALA	546	20.853	-5.009	3.755	1.00	43.49
			1913	CA	ALA	546	20.053	-6.229	3.746	1.00	46.96
		ATOM ATOM		CB	ALA	546	19.213	-6.305	5.006	1.00	47.82
	20		1915	CB	ALA	546	19.213	-6.362	2.508	1.00	49.55
	20	ATOM	1916					-5.368			48.75
		ATOM	1917	0	ALA	546	18.804		1.883	1.00	50.98
		ATOM	1918	N	HIS	547	18.895	-7.606	2.152	1.00	
		ATOM	1919	CA	HIS	547	18.042	-7.884	1.006	1.00	53.77
	25	ATOM '	1920	CB	HIS	547	18.431	-9.223	0.369	1.00	52.69
	25	ATOM	1921	CG	HIS	547	18.395	-10.382	1.317	1.00	55.05
۱Ō		ATOM	1922	CD2	HIS	547	17.477	-10.752	2.242	1.00	53.94
IU		ATOM	1923	ND1	HIS	547	19.395	-11.329	1.371	1.00	56.23
Ü		ATOM	1924	CE1	HIS	547	19.095	-12,232	2.286	1.00	55.36
J==	20	ATOM	1925	NE2	HIS	547	17.936	-11.906	2.830	1.00	57.01
الم	30	ATOM	1926	С	HIS	547	16.603	-7.936	1.518	1.00	55.69
lab		ATOM	1927	0	HIS	547	16.362	-7.796	2.720	1.00	54.30
1		ATOM	1928	N	ARG	548	15.653	-8.139	0.612	1.00	57.00
5 !		ATOM	1929	CA	ARG	548	14.245	-8.212	0.987	1.00	60.65
-		ATOM	1930	CB	ARG	548	13.432	-7.171	0.208	1.00	62.69
Ū	35	MOTA	1931	CG	ARG	548	14.272	-6.222	-0.637	1.00	67.54.
		ATOM	1932	CD	ARG	548	13.448	-5.061	-1.171	1.00	71.92
		ATOM	1933	NE	ARG	548	13.702	-3.826	-0.432	1.00	76.95
Ö		ATOM	1934	CZ	ARG	548	14.864	-3.178	-0.429	1.00	79.04
	4.0	ATOM	1935	NH1	ARG	548	15.891	-3.644	-1.128	1.00	80.66
· 122	40	ATOM	1936	NH2	ARG	548	15.001	-2.063	0.278	1.00	80.39
		ATOM	1937	C	ARG	548	13.695	-9.608	0.711	1.00	61.65
		ATOM	1938		ARG	548	12.500	-9.781	0.466		62.05
		ATOM	1939		LEU	549		-10.603	0.756	1.00	62,39
		ATOM	1940	CA	LEU	549		-11.985	0.507		64.02
	45	ATOM	1941	CB	LEU	549		-12.828	0.195	1.00	62.14
		ATOM	1942	CG	LEU	549		-12.191	-0.753	1.00	60.76
		ATOM	1943	CD1	LEU	549		-13.074	-0.878	1.00	57.77
		ATOM	1944	CD2	LEU	549	15.823	-11.972	-2.108	1.00	58.38
		ATOM	1945	С	LEU	549	13,431	-12.574	1.702	1.00	66.65
	50	ATOM	1946	0	LEU	549	12.759	-13.600	1.577	1.00	67.15
		ATOM	1947	N	HIS	550	13.541	-11.920	2.856	1.00	67.72
		ATOM	1948	CA	HIS	550	12.858	-12.378	4.065	1.00	69.93
		ATOM	1949	CB	HIS	550	13.753	-12.190	5.298	1.00	70.76
		ATOM	1950	CG	HIS	550	14.977	-13.054	5.306	1.00	71.50
	55	ATOM	1951	CD2	HIS	550		-13.821	4.341	1.00	71.63
		ATOM	1952	ND1	HIS	550	15.793	-13.172	6.411	1.00	71.98
		ATOM	1953	CE1	HIS	550	16.805	-13.972	6,126	1.00	72.04
		ATOM	1954	NE2	HIS	550		-14.379	4.876	1.00	71.39
		ATOM	1955	С	HIS	550		-11.603	4.275	1.00	71.15
	60	ATOM	1956	0	HIS	550		-11.684	5.340	1.00	70.66
		ATOM	1957	N	ALA	551	11.143	-10.851	3.258	1.00	72.22
		ATOM	1958	CA	ALA	551	9.919	-10.057	3.338	1.00	73.58
							0.54	•			

5	ATOM	1959	СВ	ALA	551	9.904	-9.014	2.221	1.00	73.21
3	ATOM	1960	C	ALA	551	8.658	-10.920	3.266	1.00	74.69
	MOTA	1961	0	ALA	551	7.684		2.621	1.00	76.12
	MOTA	1962	OXT	ALA	551	8.651	-12.025	3.852	1.00	73.79
	HETATM	1963	C10	OHT	600	30.581	1.481	29.471	1.00	26.84
10	HETATM	1964	C9	OHT	600	30.713	-0.043	29.358	1.60	22.85
10	HETATM	1965	C8	OHT	600	31.366	-0.385	28.037	1.00	25.56
		1966	C11	OHT	600	32.761	0.051	27.916	1.00	27.51
	HETATM HETATM	1967	C16	OHT	600	33.218	0.797	26.797	1.00	28.35
		1968	C15	OHT	600	34.551	1.237	26.747	1.00	30.39
15	HETATM	1969	C14	OHT	600	35.443	0.923	27.792	1.00	30.23
13	HETATM	1970	C13	OHT	600	35.004	0.185	28.890	1.00	31.45
	HETATM	1971	C12	OHI	600	33.666	-0.241	28.955	1.00	27.93
	HETATM	1972	C7	OHI	600	30.682	-1.089	27.077	1.00	24.41
	HETATM		C1	OHT	600	29.211	-1.258	27.052	1.00	24.26
20	HETATM	1973	C2	OHT	600	28.644	-2.526	26.706	1.00	25.92
20	HETATM	1974	C3		600	27.254	-2.668	26.580	1.00	26.32
	HETATM	1975	C4	OHT OHT	600	26.438	-1.553	26.813	1.00	29.02
	HETATM	1976			600	25.072	-1.605	26.716		28.42
	HETATM	1977 1978	04 C5	OHT OHT	600	26.980	-0.286	27.130	1.00	26.98
25	HETATM	1979	CE	OHT	600	28.362	-0.147	27.231	1.00	25.23
23	HETATM HETATM	1980	C17	OHI	600	31.370	-1.692	25.942	1.00	26.61
ì	HETATM	1981	C18	OHT	600	32.508	-2.498	26.151	1.00	26.77
ļ	HETATM	1982	C19	OHT	600	33.166	-3.052	25.072	1.00	27.50
ì	HETATM	1983	C20	OHT	600	32.676	-2.794	23.786	1.00	27.50
30	HETATM	1984	020	OHT	600	33.206	-3.566	22.795	1.00	31.35
1	HETATM	1985	C23	OHT	600	33.009	-3.135	21.448	1.00	40.09
•	HETATM	1986	C24	OHT	600	34.226	-3.490	20.575	1.00	44.80
	HETATM	1987	N24	OHT	600	34.141	-4.901	20.203	1.00	49.00
	HETATM	1988	C25	OHT	600	33.375	-5.040	18.933	1.00	51.64
35	HETATM	1989	C26	OHT	600	35.495	-5.459	20.004	1.00	52.06
!	HETATM	1990	C21	OHT	600	31.540	-2,005	23.558	1.00	27.19
İ	HETATM	1991.		OHT	600	30.892	-1.450	24.645	1.00	27.92
	HETATM	1992	01	нон	1	20.714	-12.010	23.057	1.00	27.20
	HETATM	1993	01	нон	2	22.563	-0.070	25.819	1.00	25.77
40	HETATM	1994	01	нон	3	25.183	19.202	23.149	1.00	42.52
	HETATM	1995	01	нон	4	35.158	5.823	37.390	1.00	33.92
	HETATM	1996		нон	5	22.116	-9.922	18.914	1.00	30.18
	HETATM	1997	01	нон	6	29.812	6.536	19.652	1.00	26.11
	HETATM	1998	01	нон	7	13.362	4.463	20.376	1.00	29.40
45	HETATM	1999	01	нон	8	19.799		20.187	1.00	28.70
	HETATM	2000	01	нон	9	21.205	1.466	23.794	1.00	22.47
	HETATM	2001	01	нон	10	21.177	-4.961	29.066	1.00	33.00
	HETATM	2002	01	нон	11	18.591	1.863	20.518	1.00	32.59
	HETATM	2003	01	нон	12	16.298	21.566	15.992	1.00	33,42
50	HETATM	2004	01	нон	13	18.611	1.976	24.494	1.00	29.70
	HETATM	2005	01	нон	14	38.009	8.910	21.156	1.00	39.92
	HETATM	2006	01	нон	15	26.549	11.664	18.080	1.00	30.25
	HETATM	2007	01.	нон	16	20.282	-4.239	26.512	1.00	32.70
	HETATM	2008	01	нон	17	32.858	8.754	20.237	1.00	29.88
55	HETATM	2009	01	нон	18	8.497	16.136	29.934	1.00	46.80
	HETATM	2010	01	нон	19	21.940	19.301	31.632	1.00	35.72
	HETATM	2011	01	нон	20	35.153	2.682	14.122	1,00	41.02
	HETATM	2012	01	нон		20.358	-2.268	21.013	1.00	29.43
	HETATM	2013		нон	22	35.562	10.036	36.334	1.00	41.37
60	HETATM	2014	01	нон	23	17.248	18.187	17.571	1.00	33.96
	HETATM	2015	01	нон	24	18.445	20.973	12,346	1.00	43.44
	HETATM	2016	01	нон	25	12.152	23.054	33.132	1.00	36.04
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5	HETATM	2017	01	нон	26	13.181	22.222	9.699	1.00	37.03
•	HETATM	2018	61	нон	27	19.399	-6.090	12.808	1.00	44.86
	HETATM	2019	01	нон	28	37.895	13.599	31.395	1.00	47.26
	НЕТАТМ	2020	01	нон	29	11.570	6.212	7.962	1.00	51.10
	HETATM	2021	01	нон	30	20.172	-2.568	23.445	1.00	51.70
10	HETATM	2022	01	нон	31	36.402	-5.369	23.729	1.00	58.20
. •	HETATM	2023	01	нон	32	25.127	13.802	19.187	1.00	35.29
	HETATM	2024	01	нон	33	23.181	4.937	38.538	1.00	33.77
	HETATM	2025	01	нон	34	20.550	0.421	21.276	1.00	29.12
	HETATM	2026	01	нон	35	39.599	13.954	27.312	1.00	44.08
15	HETATM	2027	01	нон	36	26.445	13.863	21.285	1.00	34.97
	HETATM	2028	01	нон	37	13.759	5.079	9.108	1.00	38.54
	HETATM	2029	01	нон	38	14.150	24.731	34.529	1.00	49.72
	HETATM	2030	01	нон	39	21.060	13.886	-6.319	1.00	59.79
	HETATM	2031	01	нон	40	32.215	6.217	8.726	1.00	60.22
20	HETATM	2032	01	нон	41	35,105	15.704	9.069	1.00	45.15
20	HETATM	2033	01	нон	42	11.427	19.451	9.903	1.00	38.56
	HETATM	2034	01	нон	43	19.662	23.472	10.333	1.00	47.71
	HETATM	2035	01	нон	44	9.231	3.690	12.337	1.00	45.98
	HETATM	2035	01	нон	45	15.313	-6.036	17.192	1.00	39.07
25	HETATM	2037	01	нон	46	15.517	-3.266	17.907	1.00	37.67
23	HETATM	2038	01	нон	47	28.784	-16.713	25.163	1.00	55,44
	HETATM	2039	01	нон	48	27.868	-10.898	28.271	1.00	31.27
	HETATM	2040	01	нон	49	6.955	13.568	28.233	1.00	48.83
	HETATM	2041	01	нон	50	22.051	-15.030	28.603	1.00	36.91
30	HETATM	2042	01	нон	51	7.026	31.002	30.284	1.00	46.73
30	HETATM	2043	01	нон	52	-1.489	12.385	15.164	1.00	51.17
	HETATM	2044	01	нон	53	3.499	6.444	14.452	1.00	50.38
	HETATM	2045	01	нон	54	18.655	-2.048	25.518	1.00	52.29
	HETATM	2046	01	нон	55	28.188	-15.195	38.996	1.00	55,22.
35	HETATM	2047	01	нон	56	35.275	-10.556	38.061	1.00	57.39
	HETATM	2048	01	нон	57	37.771	-9.103	34.605	1.00	54.17
	HETATM	2049	01	нон	58	31.403	-3.039	17.983	1.00	46.80
•	HETATM	2050	01	нон	59	30.455	-6.352	17.005	1.00	47.05
	HETATM	2051	01	нон	60	25.985	8.255	0.416	1.00	43.32
40	HETATM	2052	01	нон	61	35.679	0.749	10.462	1.00	42.99
. •	HETATM	2053	01	НОН	62	14.741	4.029	33.936	1.00	49.59
	HETATM	2054	01	НОН	63	16.333	2.592	35.952	1.00	45.13
	HETATM	2055	01	НОН	64	23,809	7.186	39.798	1.00	45.36
	HETATM	2056	01	нон	65	27.012	-1.948	46.995	1.00	63.39
45	HETATM	2057	01	НОН	66	25.956	-6.422	42.144	1.00	44.94
	HETATM	2058	01	НОН	67	23.510	-8.414	39.036	1.00	39.06
	HETATM	2059	01	нон	68	41.475	0.971	33.110	1.00	55.50
	HETATM	2060	01	нон	69	36.519	8.863	38.836	1.00	41.56
	HETATM	2061	01	нон	70	30.111	14.823	12.793	1.00	44.58
50	HETATM	2062	01	нон	71	26.850	-6.092	1.594	1.00	40.15
	HETATM	2063	01	нон	72	20.448	-3.169	1.055	1.00	42.50
	HETATM	2064	01	нон	73	33.896	3.047	16.172	1.00	46.39
	HETATM	2065	01	нон	74	16.884	0.446	26.043	1.00	61.50
	HETATM	2066	01	нон	75	18.595	0.296	27.866	1.00	47.33
55	HETATM	2067	01	нон	76	6.166	21.439	19.124	1.00	47.94
- -	HETATM	2068	01	нон	77	18.484	20.060	16.232	1.00	35.52
	HETATM	2069	01	нон	78	1.985	23.265	29.187	1.00	46.42
	HETATM	2070	01	нон	79	12.729	30.461	27.530	1.00	
	END	-							•	
60										

Staple Here Only

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

Page <u>1</u> of <u>185</u>

PATENT NO.

.: 6,965,850

APPLICATION NO :: 09/281,717

DATED

.: NOVEMBER 15, 2005

INVENTOR(S)

.: JOHN D. BAXTER, WEIJUN FENG, ROBERT J. FLETTERICK, J. PETER KUSHNER,

RICHARD L. WAGNER, BRIAN L. WEST, KEITH R. YAMAMOTO AND BEATRICE

DARIMONT

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please insert Appendix 1, Appendix 2, and Appendix 3 as attached hereto, at Col. 40, after "The invention now being fully described, it will be apparent to one of ordinary skill in the art that many changes and modifications can be made thereto without departing from the spirit or scope of the appended claims" and

before "SEQUENCE LISTING".

MAILING ADDRESS OF SENDER:

Richard G. A Bone Fish & Richardson P.C. P.O. Box 1022 Minneapolis, Minnesota 55440-1022

Appendix 1

Atomic Coordinates for Human TR-B Complexed With T3, and a GRIP1 NR-box 2 Peptide

```
REMARK full length numbering
REMARK all residue names correct
REMARK peptide sequence
REMARK two molecules of TRB - CHAIN A and CHAIN B
REMARK two molecules of T3 - CHAIN J and CHAIN K
REMARK two molecules of GRIP-1 peptide - CHAIN X and CHAIN Y
REMARK chain X lies between A and B
REMARK chain Y interacts with B only
REMARK residues differing between A and B include:
REMARK A 217 Glu, A 252 Gln, A 263 Lys (missing side chains)
REMARK B 237 Ser, B239 His, B 394 Lys (missing side chains)
REMARK additionally Gly 261, Gly 262 are not visible in chain A
REMARK residues differing between X and Y include:
REMARK A 692 Arg
REMARK additionally, residues Lys 688, Lys 689; Ser 697, Ser 698
REMARK are not visible in chain Y
                                                                            7
                                   52.546
                                            23.912
                                                     35.239
                                                              1.00 45.76
                  LYS A 211
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ATOM
                                                     36.586
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                                            23.665
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                                   51.511
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              O.
ATOM
                                                                            б
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ATOM	91	CB			222	36.379	20.997	39.343	1.00 33.7		
ATOM	92	CG2			222	35.970	21.182	37.893	1.00 28.8		
ATOM	93	CG1	ILE	Α	222	37.532	21.922	39.707	1.00 33.3	3 6	
ATOM	94	CD1	ILE	A	222	38.804	21.586	39.004	1.00 34.8	5 6	
ATOM	95	С	ILE	A	222	34.067	20.365	39.735	1.00 34.2	6 . 6	
ATOM	96	0	·ILE	Α	222	33.033	20.873	39.319	1.00 31.9	8 0	
ATOM	97	N	LYS	A	223	34.301	19.058	39.750	1.00 39.4	9 7	
ATOM	98	CA	LYS	A	223	33.316	18.100	39.276	1.00 44.4	3 6	
ATOM	99	CB	LYS	Ą	223	33.603	16.713	39.852	1.00 50.8	1 6	
ATOM	100	CG			223	32.741	15.631	39.227	1.00 62.5		
ATOM	101	CD			223	32.859	14.291	39.943	1.00 72.2		
ATOM	102	CE			223	31.798	13.318	39.430	1.00 74.5		•
MOTA	103	NZ			223	31.900	11.985	40.106	1.00 75.7		
ATOM	104	·C			223	31.913	18.565	39.681	1.00 42.8		
ATOM	105	0			223	30.936	18.323	38.984	1.00 40.3		
ATOM	106	N			224	31.849	19.236		1.00 39.8		•
ATOM	107	CA			224	30,602	19.792	41.378	1.00 39.9		
ATOM	108	CB			224	30.805	20.206	42.851	1.00 40.5 1.00 39.2		•
-ATOM	109 110	OG1 CG2			224 224	31.330 29.500	19.113 20.684	43.616 43.461	1.00 39.2		
ATOM ATOM	111	C			224	30.167	21.011	40.533	1.00 38.1		
ATOM	112	0			224	29.313	20.899	39.655	1.00 36.6		
ATOM	113	N			225	30.777	22.160	40.832	1.00 38.0		
ATOM	114	CA			225	30.532	23.426	40.137	1.00 38.1		
ATOM	115	СВ			225	31.797	24.292	40.122	1.00 38.1		
MOTA	116		VAL			31.512	25.636	39.491	1.00 36.7		
MOTA	117		VAL			32.343	24.464	41.505	1.00 41.7	6 6	
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ATOM	132	N	ALA			26.811	21.630	38.107	1.00 32.8		
ATOM	133	CA.	ALA			25.903	22.734	38.356	1.00 32.4		
ATOM	134	CB	ALA			26.448	23.587	39.486	1.00 28.2		
ATOM	135	C	ALA			25.732	23.570	37.101	1.00 36.1		
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ATOM	137	N	HIS			26.782	24.306	36.752	1.00 33.5		
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ATOM	139	CB	HIS			28.155	25.691	35.266	1.00 33.6		
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ATOM
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ATOM
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                   GLU A 248
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MOTA
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                   GLU A 248
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MOTA
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ATOM
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                   ASP A
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                   ASP A 249
                                     13.493
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ATOM
         304
              CA
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ATOM	305	СВ	ASP	A 249	12.088	45.531	12.116	1.00 62.97	6
MOTA	306	CG	ASP	A 249	11.277	44.527	12.870	1.00 64.63	6
ATOM	307	OD1	ASP	A 249	11.687	43.352	12.963	1.00 64.84	8
MOTA	308	OD2	ASP	A 249	10.183	44.880	13.395	1.00 66.52	8
ATOM	309	С	ASP	A 249	13.371	46.062	14.130	1.00 64.31	6
ATOM	310	0	ASP	A 249	13.310	47.250	14.468	1.00 64.73	8
ATOM	311	N	ILE	A 250	13.274	45.049	14.997	1.00 63.09	7
ATOM	312	CA		A 250	13.133	45.318	16.418	1.00 64.39	6
ATOM	313	СВ		A 250	13.035	44.034	17.214	1.00 65.79	6
ATOM	314	CG2		A 250	12,001	44.104	18.336	1.00 64.78	6
ATOM	315	CG1		A 250	12.611	42.860	16.341	1.00 65.28	6
ATOM	316	CD1		A 250	11.753	41.852	17.088	1.00 65.08	6
ATOM	317	C		A 250	14.404	46.104	17.276	1.00 65.21	6
ATOM	318	Ô		A 250	15.155	45.506	18.047	1.00 64.05	8
ATOM	319	N		A 251	14.670	47.529	17.299	1.00 65.48	. 7
ATOM	320	CA		A 251	15.871	48.326	18.042	1.00 67.32	6
ATOM	321	C		A 251	16.595	49.110	16.895	1.00 68.52	6
ATOM	322	Ö		A 251	17.528	48.616	16.266	1.00 65.49	8
ATOM	323	N		A 252	16.162	50.356	16.557	1.00 72.26	7
ATOM	324	CA		A 252	16.541	50.930	15.207	1.00 74.10	6
ATOM	325	CB		A 252	15.316	50.844	14.295	1.00 75.82	6
ATOM	326	. C		A 252	16.995	52.403	15.084	1.00 77.17	6
ATOM	327	0		A 252	17.572	52.955	15.986	1.00 76.50	8
ATOM	328	N		A 253	16374	53.372		1.00 80.78	
ATOM	329	CA		A 253	16.687	54.725	13,567	1.00 83.70	6
ATOM	330	CB		A 253	16.381	54.956	12.093	1.00 83.70	6
ATOM	331	, C		A 253	16.159	55.960	14.345	1.00 85.59	6
ATOM	332	0		A 253	15.317	56.721	13.798	1.00 85.69	8
ATOM	333	И		A 254	16.384	56.155	16.264	1.00 35.05	7
ATOM	334	CD		A 254	17.102	55.053	16.908	1.00 33.97	6
ATOM	335	CA		A 254	16.002	57.231	17.219	1.00 35.89	6
ATOM	336	CB		A 254	16.534	56.756	18.563	1.00 33.94	6
ATOM	337	CG		A 254	17.146	55.441	18.349	1.00 33.31	6
ATOM	338	C		A 254	16.717	58.498	16.731	1.00 37.75	6
ATOM	339	0		A 254	17.838	58.804	17.100	1.00 38.78	8
TER									
ATOM	1	N	LYS	A 263	18.045	57.462	23.875	1.00 61.71	7
ATOM	2	CA		A 263	16.824	56.712	24.215	1.00 64.36	6
ATOM	3	СВ		A 263	15.758	57.004	23.141	1.00 63.50	6
ATOM	. 4	С		A 263	16.841	55.180	24.429	1.00 63.41	6
ATOM	5	0		A 263	17.877	54.542	24.409	1.00 61.93	8
ATOM	6	N		A 264	15.615	54.664	24.654	1.00 61.15	7
ATOM	7	CA		A 264	15.292	53.229	24.856	1.00 59.46	6
ATOM	8	CB		A 264	14.251	52.974	25.978	1.00 59.03	6
ATOM	9	CG1		A 264	14.229	51.494	26.368	1.00 53.79	6
ATOM	10			A 264	14.449	53.818	27.142	1.00 55.32	6
ATOM	11	С		A 264	14.590	52.820	23.554	1.00 60.96	6
ATOM	12	0		A 264	14.734	53.468	22.508	1.00 62.13	8
ATOM	13	N		A 265	13.802	51.755	23.634	1.00 62.13	7
ATOM	14	CA		A 265	12.995	51.263	22.526	1.00 64.95	6
ATOM	15	CB		A 265	13.825	51.203	21.271	1.00 64.32	6
ATOM	16	CG		A 265	13.282	50.048	20.485	1.00 67.70	6
ATOM	17	OD1		A 265	12.795	50.011	19.446	1.00 72.59	8
ATOM	18			A 265	13.354	48.867	20.294	1.00 68.84	8
A I OF	10	UDE		. 200	~3.339	40.007	20.274	1.00 00.04	J

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1.00 65.64
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ATOM
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ATOM
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MOTA
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ATOM
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MOTA
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MOTA
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MOTA-
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ATOM
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                   HIS A 271
MOTA
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ATOM
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ATOM
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ATOM
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          72
               CB
                   PHE A 272
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                                               42.194 26.512
MOTA
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ATOM	73	CG			272		15.953	42.413	25.282	1.00 33.39	6 -	•
ATOM	74		PHE				16.619	43.615	25.093	1.00 33.14	6	
MOTA	75		PHE				16.138	41.394	24.346	1.00 38.28	6	
ATOM	76		PHE				17.454	43.807	23.988	1.00 38.26	6	
ATOM	77		PHE				16.973	41.585	23,244	1.00 43.28	6	
ATOM	78	CZ			272	•	17.634	42.786	23.068	1.00 39.74	6	
ATOM	79	С			272		13.650	40.528	27,764	1.00 40.75	6	
ATOM	80	0			272		14.081	39.476	28.227	1.00 35.51	8	
ATOM	81	N	THR				12.756	41.266	28.428	1.00 41.64	7	
ATOM	82	CA			273		12.290	40.854	29.757	1.00 45.97	6	
ATOM	83	CB	THR				11.651	42.025	30.506	1.00 51.52 1.00 45.74	6	
ATOM	84		THR				10.442	42.422 43.211	29.859 30.565	1.00 49.73	8 6	
MOTA	85	CG2	THR				12.601 11.267	39.731	29.664	1.00 49.73	6	
ATOM	86 87	С 0	THR				10.854	39.731	30.680	1.00 40.23	8	
ATOM ATOM	88	N			274		10.849	39.412	28.440	1.00 46.21	7	
ATOM	89	CA	LYS			•	9.871	38.362	28.211	1.00 54.53	6	
ATOM	90	CB	LYS				9.414	38.405	26.773	1.00 54.36	6	
ATOM	91	C			274		10.498	37.015	28.515		6	
ATOM	92	0	LYS				9.789	36.044	28.759	1.00 57.98	8	
ATOM	93	N	ILE				11.836	36.973	28.491	1.00 56.48	7	
ATOM	94	CA	ILE				12.609	35,746	28.767	1.00 52.64	6	
ATOM	95	СВ	ILE				13.444	35.346	27.543	1.00 49.15	6	
ATOM	96	CG2	ILE	Α	275		12.568	34.829	26.429	1.00 47.42	6	
ATOM	97	CG1	ILE	А	275		14.238	36.532	27.026	1.00 45.31	6	
MOTA	98	CD1	ILE				15.001	36.242	25.771	1.00 37.22	6	
MOTA	99	C	ILE				13.541	35.870	29.982	1.00 51.78	6	
MOTA	100	. 0	ILE				14.014	34.873	30.503	1.00 49.80	8	
MOTA	101	N	ILE				13.790	37.107	30.415	1.00 51.76	. 7	
ATOM	102	CA	ILE				14.681	37.389	31.537	1.00 52.58	6	
MOTA	103	СВ	ILE				14.691	38.877	31.844	1.00 55.04	6	
ATOM	104		ILE				13.311	39.340	32.261	1.00 53.28	6	
ATOM	105		ILE				15.675 17.096	39.206 38.942	32.976 32.655	1.00 57.31 1.00 60.32	6 6	
ATOM ATOM	106 107	CDI	ILE				14.323	36.644	32.828	1.00 50.32	6	
ATOM	108	0	ILE				15.177	36,458	33.691	1.00 55.55	8	
ATOM	100	N	THR				13.072	36.209	32.963	1.00 33.33	7	
ATOM	110	CA	THR				12.631	35,523	34.158	1.00 42.59	6	
ATOM	111	СВ	THR				11.098	35.456	34.217	1.00 44.97	6	
ATOM	112		THR				10.545	36.777	34.102	1.00 46.38		
ATOM	113		THR				10.657	34.838	35.539	1.00 37.17	6	
ATOM	114	С	THR				13.211	34.118	34.304	1.00 39.84	6	
ATOM	115	0	THR				13.796	33.796	35.365	1.00 40.55	8 ·	
MOTA	116	N	PRO				13.055	33.261	33.288	1.00 38.20	7	
ATOM	117	CD	PRO				12.370	33.534	32.023	1.00 36.34	6	
ATOM	118	CA	PRO.				13.595	31.894	33.363	1.00 36.63	6	
ATOM	119	CB	PRO				13.153	31.244	32.064	1,00 32.95	6	
ATOM	120	CG	PRO	Α	278		12.573	32.291	31.239	1.00 35.75	6	
ATOM	121	С	PRO	A	278		15.101	31.932	33.476	1.00 38.60	6	
ATOM	122	0	PRO	A	278		15.746	30.981	33.898	1.00 37.67	8	
ATOM	123	N	ALA	Α	279		15.656	33.051	33.035	1.00 37.05	7	
ATOM	124	CA	ALA	A	279		17.087	33.277	33.041	1.00 33.18	6	
MOTA	125	CB	ALA				17.376	34.599	32.348	1.00 30.56	6	
MOTA	126	С	ALA	A	279		17.624	33.312	34.452	1.00 33.47	6	

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32.555
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MOTA
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ATOM	291	CB	ASP	A	300	23.919	35.513	53.213	1.00	37.38	6
ATOM	292	CG	ASP	A	300	24.223	36.239	54,473	1.00	36.23	6
MOTA	293	OD1	ASP	Α	300	24.153	37.488	54.493	1.00	35.87	8
ATOM	294	OD2	ASP	A	300	24.572	35.575	55.483		40.14	8
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ATOM	297	N			301	22.095	34.124	51.137	1.00		7
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ATOM	301	CD	GLN			20.690	29.824	50.988		44.15	6
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ATOM	303		GLN			21.027	28.685	50.394		46.13	7
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ATOM	305	Ö	GLN			21.482	34.185	47.686		45.02	. 8
ATOM	306	N	ILE			20.413	35.228	49.372		41.01	7
ATOM	307	CA	ILE			19.726	36.179	48.511		40.23	6
ATOM	308	CB	ILE			18.502	36.774	49.217		39.52	6
ATOM	309	CG2	ILE			17.818	37.788	48.342		31.98	6
ATOM	310	CG1	ILE			17.502	35.673		1.00		6
ATOM	311	CD1	ILE			17.003	34.897	48.385		45.43	6
ATOM	312	C	ILE			20.698	37.268	48.096	1.00		6
ATOM	313	Ö	ILE			20.960	37.453	46.906	1.00		8
ATOM	314	N .	ILE			21.228	37.972	49.097		37.50	7
ATOM	315	CA	ILE			22.179	39.060	48.874		39.33	6
ATOM	316	СВ	ILE			23.023	39.338	50.109		39.06	6
ATOM	317		ILE			23.946	40.522	49.861	1.00		
ATOM	318	CG1	ILE			22.141	39.653	51.313	1.00		6
ATOM	319	CD1	ILE			22.916	39.806	52.589	1.00		6
ATOM	320	С	ILE			23.093	38.705	47,722	1.00		6
ATOM	321	0	ILE			23.354	39.509	46.835	1.00		8
ATOM	322	N	LEU			23.580	37.477	47.762		32.91	7
ATOM	323	CA	LEU			24.465	36.964	46.734		27.55	6
ATOM	324	СВ	LEU	Α	304	24.935	35.554	47.123	1.00	22.35	6
ATOM	325	CG	LEU			26.150	35.480	48.029	1.00	26.88	6
ATOM	326		LEU			26.267	36.731	48.876	1.00	24.82	_. 6
ATOM	327		LEU			26.084	34.226	48.861	1.00	23.69	· 6
ATOM	328	С	LEU			23.764	36.968	45.389	1.00	28.05	6
ATOM	329	0	LEU	Α	304	24.212	37.623	44.443	1.00	.24.68	8
ATOM	330	'n	LEU			22.657	36.236	45.318	1.00	26.34	7
ATOM	331	CA	LEU			21.892	36.147	44.089	1.00	30.91	6
ATOM	332	СВ	LEU			20.565	35.434	44.359		32.50	6
ATOM	333	CG	LEU			20.637	33.950	44.635		33.36	6
ATOM	334		LEU			19.247	33.370	44.779		33.87	6
ATOM	335		LEU			21.340	33.280	43.466	•	31.72	6
ATOM	336	C	LEU			21.665	37.524	43,477		29.76	6
ATOM	337		LEU			21.954	37.747	42.301		29.33	8
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ATOM	341		LYS			18.919	40.163	45.511		43.35	6
ATOM	342	CD	LYS			18.397	41.127	46.559		51.50	6
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                                                                1.00 29.16
         432
                   VAL A 319
ATOM
              CA
                                    30,880
                                              33.198
                                                       26.393
                                                                1.00 35.24
                                                                                6
                   VAL A 319
ATOM
         433
              CB
                                    30.703
                                              32.210
                                                       27.547
                                                                1.00 27.34
                                                                                6
ATOM
         434
              CG1 VAL A 319
                                    30.895
                                              32.891
                                                       28.858
                                                                1.00 29.96
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ATOM
         435
              CG2 VAL A 319
                                    29.353
                                              31.552
                                                       27.482
                                                                1.00 31.70
                                                                               6
MOTA
         436
              С
                   VAL A 319
                                    30.215
                                              32.608
                                                       25.165
                                                                1.00 40.01
                                                                               6
         437
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ATOM
              0
                   VAL A 319
                                    30.640
                                              31.575
                                                       24.680
                                                                1.00 42.70
ATOM
         438
              Ν
                   ARG A 320
                                    29.176
                                              33.284
                                                       24.683
                                                                1.00 38.64
                                                                               7
                   ARG A 320
         439
              CA
                                    28.415
                                              32.822
                                                       23.545
                                                                1.00 38.61
ATOM
                                                                               6
                                    27.031
                                                                1.00 37.26
MOTA
         440
              CB
                   ARG A 320
                                              32.458
                                                       24.043
                                                                               6
                                              30.991
                                                                1.00 43.12
                                                                               6
ATOM
         441
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                   ARG A 320
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                                                       24.192
MOTA
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                   ARG A 320
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                                              30.642
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MOTA
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                                              29.256
                                                       24.770
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                                                                               7
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ATOM
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ATOM
              NH2 ARG A 320
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                   ARG A 320
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MOTA
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                   ARG A 320
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                                                                1.00 42.04
                                                                               7
ATOM
         449
              N
                   TYR A 321
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                                                       22.173
ATOM
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              CA
                   TYR A 321
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                                              35.555
                                                       21.098
                                                                1.00 42.70
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MOTA	451	СВ			321		30.083	36.810	21.575		38.01	6
MOTA	452	CG			321		30.601	37.650	20.448	1.00	37.94	6
ATOM	453	CD1	TYR	A	321		29.733	38.296	19.574	1.00	33.85	6
ATOM	454	CE1	TYR	A	321		30,235	39.037	18.494	1.00	34.49	. 6
ATOM	455	CD2	TYR	A	321		31.966	37.743	20.224	1.00	28.03	6
ATOM	456	CE2					32.473	38.475	19.153		32.69	6
ATOM	457	cz	TYR				31.612	39.125	18.276		35.18	6
MOTA	458	ОН	TYR			•	32.107	39.866	17.223	1.00		. 8
	459		TYR				30.085	35.005				6
ATOM		C							19.877		45,51	
ATOM	460	0	TYR				31.261	34.697	19.951		48.02	8
ATOM	461	N	ASP				29.354	34.879	18.773		44.56	7
ATOM	462	CA	ASP				29.912	34.400	17.502		45.86	6
MOTA	463	CB	ASP				28.804	33.670	16.736		46.64	6
ATOM	464	CG	ASP				29.050	33.608	15.255		40.00	6
ATOM	465		ASP				30.010	34.256	14.768		40.00	8
ATOM	466	OD2	ASP				28.262	32.929	14.536	1.00	40.00	8
ATOM	467	C	ASP	A	322		30.460	35.629	16.755	1.00	45.82	6
MOTA	468	0	ASP	A	322		29.678	36.464	16.271	1.00	45.38	8
ATOM	469	N	PRO	Α	323		31.800	35.735	16.584	1.00	46.53	7
ATOM	470	CD	PRO	A	323		32.774	34.719	16.991	1.00	47.16	6
ATOM	471	CA	PRO	A	323		32.424	36.889	15.890	1.00	46.63	6
ATOM	472	CB	PRO	A	323	•	33.921	36.603	15.936	1.00	43.95	6
MOTA	473	CG	PRO				34.099	35.303	16.582		43.93	6
MOTA	474	С	PRO				31.953	37.087	14.453	1.00	48.34	.6
ATOM	475	0	PRO				31.797	38.210	13.960		50.84	8
ATOM	476	N	GLU				31.778	35.970	13.752		52.39	7
ATOM	477	CA	GLU				31.339	35.968	12.370		55.85	6
ATOM	478	СВ	GLU				31.035	34.528	11.965		55.54	6
ATOM	479	CG	GLU				32.224	33.584	12.104	1.00		6
ATOM	480	CD	GLU			,	33.432	34.023	11.310		40.00	6
ATOM	481	OE1	GLU				33.350	35.040	10.555		40.00	8
ATOM	482	OE2	GLU				34.506	33.356	11,415		40.00	8
MOTA	483	C	GLU				30.077	36.798	12.277		54.94	6
MOTA	484	0	GLU				30.070	37.892	11.730		59.81	8
ATOM	485	N	SER				29.009	36.212	12.810		52.95	7
ATOM	486	CA	SER				27.695	36.812	12.839		50.10	6
												_
MOTA	487	CB	SER				26.701				48.23	6
ATOM	488	OG	SER				27.183		14.615		48.71	8
MOTA	489	С	SER				27.651		13.659		50.61	6
ATOM	490	0	SER				26.885	38.992	13.354		52.19	8
MOTA	491	N	GLU				28.495		14.687		45.64	7
ATOM	492	CA	GLU.				28.567	39.341	15.546		43.35	6
ATOM	493	CB	GLU				28.830	40.608	14.711		42.74	6
ATOM	494	CG	GLU				30.148	40.606	13.945		50.32	6
ATOM	495	CD	GLU	A :	326		30.451	41.925	13.313	1.00	56.34	6
ATOM	496	OE 1	GLU	A C	326		31.509	42.046	12.649	1.00	59.31	8
ATOM	497	OE2	GLU	A 3	326		29.656	42.890	13.452	1.00	55.74	8
ATOM	498	· C	GLU	A 3	326		27.288	39.526	16.340	1.00	40.23	6
ATOM	499	0	GLU				26.695	40.603	16.340	1.00	40.44	8
ATOM	500	N	THR				26.888	38.474	17.051		35.90	7
ATOM	501	CA	THR				25.663	38.506	17.860		37.29	6
ATOM	502	СВ	THR				24.466	38.057	17.024		37.63	6
ATOM	503	OG1						36.709	16.580		38.12	8
ATOM	504		THR				24.269	38.965	15.810		39.90	6
111 OC .	504	JU2	+114	· ·	'		209	50.505	13.010	.	33.30	0

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ATOM	505	С	THR	A	327	25.767	37.562	19.038	1.00	39.49	. 6
ATOM	506	0	THR	A	327	26.284	36.458	18,903	1.00	40.50	8
ATOM	507	N	LEU	A	328	25.250	37.987	20.184	1,00	36.64	7
ATOM	508	CA			328	25.264	37.141	21.381	1.00	37.73	6
ATOM	509	СВ			328	25.148	37.999	22.650	1.00		6
ATOM	510	CG			328	26.102	39.150	22.843	1,00		6
ATOM	511	CD1			328	26.066	39.623	24.272	1.00		6
	512	CD2	•		328	27.481	38.688	22.500		39.85	6
ATOM	513	C	LEU			24.063	36.220	21.244		37.27	6
ATOM	514	0			328	23.306	36.337	20.279	1.00		8
ATOM	515	N			329	23.891	35,317	22.205	1.00		7
ATOM	516	CA			329	22.785	34.376	22.180	1.00	40.81	6
ATOM	517	CB			329	23.241	32.991	21,699	1.00		6
ATOM	518	OG1	THR			23.879	33.103	20.421	1.00		8
ATOM	519	CG2	THR			22.026	32.057	21.589		43,52	6
ATOM		C			329	22.168	34.245	23.548			6
ATOM	520 521	0	THR			22.526	33.370	24.320		43.72	8
ATOM	521	N			330	21.237	35.149	23.830	1.00	44.62	7
ATOM	523	CA			330 ⁻	20.532	35,170	25.111		45.09	. 6
ATOM	524	CB			330	19.677	36.444	25.195	1.00	44.66	6
ATOM	525	CG	LEU		330	20.436	37.750	25.259	1.00	51.06	6
MOTA MOTA	526	CD1	LEU		330	21.405	37.831	24.104		48.58	6
ATOM	527	CD2	LEU		330	19.466	38.909	25.238		45.18	6
ATOM	528	C	LEU		330	19.656	33.919	25.301		48.06	. 6
ATÓM	529	0			330	19.049	33.422	24.359		49,33	. 8
ATOM	530	N	ASN		331	19.618	33,431	26.540			7
ATOM	531	CA	ASN		331	18.842	32.256	26.913	1.00	54.41	6
ATOM	532	CB	ASN		331	17.361	32.628	27.009	1.00		6
ATOM	533	CG			331	16.724	32.112	28.269			. 6
ATOM	534	OD1	ASN			17.124	32.505	29.383	1.00	61.84	8
ATOM	535	ND2	ASN			15.750	31,238	28.117		65.92	7
ATOM	536	С			331	19.016	31.108	25.934	1.00	58.00	6
ATOM	537	0	ASN			18.243	30.157	25.941	1.00	60.17	8
ATOM	538	N	GLY			20.063	31.196	25.114	1.00	58,45	7
ATOM	539	CA	GLY	A	332	20.341	30.161	24.131	1.00	58.55	6
ATOM	540	С	GLY	A	332	19.316	30.016	23.021	1,00	59.79	6
MOTA	541	0	GLY	A	332	19.413	29.094	22.213	1.00	61.32	8
ATOM	542	N	GLU	•		18.346	30.929	22.983	1.00	60.28	. 7
ATOM	543	CA	GLU	Α	333	17.294	30,883	21.985	1.00	59.13	6
ATOM	544	СВ	GLU	Α	333	15.919	30.875	22.662	1.00	62,40	6
ATOM	545	CG	GLU	A	333	15.667	29.750	23.658	1.00	75.69	6
ATOM	546	CD	GLU	Α	333	14.341	29.865	24.346	1.00	80.41	6
ATOM	547	OE1	GLU	Α	333	14.052	30.932	24.945	1.00	79,98	8
ATOM	548	OE2	GLU	Α	333	13.549	28.884	24.329	1.00	83.81	8
ATOM	549	С	GLU	A	333	17.356	32.090	21.073	1.00	57.18	6
ATOM	550	0	GLU	А	333	17.239	31.969	19.852	1.00	57.50	8
MOTA	551	N	MET	Ά.	334	17.512	33.258	21.696	1.00	55.20	7
ATOM	552	CA	MET			17.561	34.529	20.980	1.00	50.85	6
ATOM	553	СВ	MET			16.751	35.556	21.763	1.00	48.70	6
ATOM	554	CG	MET			16.859	36.947	21.212	1.00	45.39	6
ATOM	555	SD	MET			15.881	38.186	22.127	1,00	44.56	16
ATOM	556	CE	MET			14.229	37.371	22.113	1.00	45.25	6
ATOM	557	С	MET			18.956	35.087	20.713	1.00	51.59	6
ATOM	558	0	MET			19.739	35.268	21.633	1.00	52.52	8
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19.444
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ATOM
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                   ALA A 335
ATOM
         561
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ATOM
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ATOM
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                   VAL A 336
ATOM
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                   VAL A 336
               CB
ATOM
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               CG1 VAL A 336
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ATOM
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               CG2 VAL A 336
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MOTA
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                                                                1.00 45.33
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                                              40.321
                   VAL A 336
MOTA
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                                                       19.025
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                   VAL A 336
ATOM
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                                                                               7
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                   THR A 337
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               N
ATOM
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                                                                1.00 39.69
                                              42.377
                                                       18,175
         572
               CA
                   THR A 337
                                     23.230
ATOM
                                                                               б
                                     22.882
                                              43.061
                                                       16.852
                                                                1.00 41.35
ATOM
         573
               CB
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               OG1 THR A 337
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                                                       17.080
                                                                1.00 49.35
                                                                               8
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ATOM
                                                                1.00 40.38
                                                                               6
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ATOM
                                                                               б
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                                                                1.00 37.88
                                    23.588
ATOM
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                   THR A 337
                                                                               8
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ATOM
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                                                                1.00 38.68
                   ARG A 338
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MOTA
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               CA
                                                                1.00 35.95
                                                                               б
                                    26.669
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                                                       19.351
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                   ARG A 338
ATOM
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ATOM
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ATOM
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                   ARG A 338
ATOM
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ATOM
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                   GLY A 339
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ATOM
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ATOM
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ATOM
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MOTA
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              CG
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ATOM
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ATOM
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ATOM
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              NE2 GLN A 340
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                                                       16.907
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ATOM
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                                                       21.263
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ATOM
                                                       21.923
                                                                1.00 42.72
                                                                               8
                                              46.444
                                    18.998
         601
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ATOM
                                                                               7
                                                       21.806
                                                                1.00 42.00
                                    20.758
                                              45.026
ATOM
         602
              Ν
                   LEU A 341
                                                                                б
         603
              CA
                   LEU A 341
                                    20.952
                                              44.947
                                                       23.243
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ATOM
                                                       23.575
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                                                                               6
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ATOM
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ATOM
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MOTA
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              CD2 LEU A 341
ATOM
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              C
                   LEU A 341
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MOTA
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ATOM
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              N
                   LYS A 342
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ATOM
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ATOM
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                   LYS A 342
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              CB
                   LYS A 342
ATOM
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ATOM	613	CG	LYS	A	342		23.655	50.536	23.240	1.00	40.00	6 -
MOTA	614	CD.			342		24.673	51,109	22,245	1.00	34.48	6
ATOM	615	CE	LYS	A	342		25.514	52.229	22.873	1.00	37.54	6
ATOM	616	NZ	LYS	Α	342		26.655	52.634	21.987	1.00	42.32	7
MOTA	617	С	LYS	A	342		20.796	49.349	23.774	1.00	38.29	8
ATOM	618	0	LY\$	A	342		20.345	49.711	24.861	1,00	36,23	8
ATOM	619	N	ASN	A	343		20.223	49.622	22.603	1.00	39.25	7
ATOM	620	CA	ASN	Α	343		18.993	50.385	22.485	1.00	40.19	6
ATOM	621	CB	ASN	Α	343		18.521	50.373	21.033	1.00	37.96	6
ATOM	622	CG	ASN	Α	343		19.664	50.550	20.052	1,00	39.22	6
ATOM	623	OD1	ASN	Α	343		20.428	51.537	20.125	1.00	42.37	8
ATOM	624	ND2	ASN	A	343		19.773	49.612	19.125	1.00	42.19	7
ATOM	625	С	ASN	Α	343		17.928	49.748	23.375	1.00	40.12	6
MOTA	626	0	ASN	Α	343		17.010	50.417	23.859	1.00	36.01	8
ATOM	627	N	GLY	A	344		18.073	48.433	23.568	1.00	40.95	7
ATOM	628	CA	GLY	Α	344		17.152	47.670	24.394	1.00	39.25	6
ATOM	629	С	GLY	Α	344	÷	17.039	48.092	25.842	1.00	38.26	
ATOM	630	0	GLY	A	344		16.072	47.724	26.512	1:00	35.69	8
ATOM	631	N	GLY	Α	345		18.017	48.857	26.329		35.89	7
ATOM	632	CA	GLY	Α	345		17.964	49.301	27.706		34.00	6
ATOM	633	С	GLY	Α	345		19.273	49.199	28.443	1.00	38.64	6
ATOM	634	0	GLY	A	345		19.469	49.888	29.441	1,00	38.14	. 8
ATOM	635	N	LEU	Α	346		20.170	48.337	27.973		39.52	7
ATOM	63 6	CA	LEU	А	346		21.444	48.180	28.649	1,00	36.05	6
ATOM	637	CB	LEU	Α	3,46		22.124	46.876	28.209	1.00	35.72	. 6
ATOM	638	CG	LEU	A	346		21.355	45.617	28.501	1.00	34.89	6
ATOM	639	CD1	LEU	A	346		22,295	44.413	28.422	1.00	44.09	6
ATOM	640	CD2	LEU	Ą	346		20.786	45.721	29.902	1.00	34.84	6
ATOM	641	C	LEU	Α	346		22.358	49.361	28.396	1.00	33.52	6
ATOM	642	0	LEU	A	346		23.267	49.653	29.178	1.00	35.58	8
MOTA	643	N	GLY				22.087	50.056	27.295	1.00	30.47	7
MOTA	644	CA	GLY				22.909	51.192	26.931		33.01	6
ATOM	645	С	GLY				24.360	50.768	26.747		30.72	6.
MOTA	646	0	GLY				24.669	49.775	26.082		30.89	8
ATOM	647	N	VAL				25.244	51.556	27.355		31.30	7
MOTA	648	ÇA	VAL				26.671	51.325	27.286		31.27	6
ATOM		CB	VAL					52.294			31.66	6
MOTA	650		VAL				27.067				20.19	6
MOTA	651		VAL				28.931		27.986		24.77	6
MOTA	652	C	VAL				27.063		27.678		33,84	6
ATOM	653	0	VAL				28.095		27.225		29.99	8
MOTA	654	N	VAL				26.253		28.514		33.31	7
MOTA	655	CA	VAL				26.568		28.906		32.23	6
ATOM	656	CB	VAL				25.581		29.858		32.59	6
MOTA	657	CG1					25.865		29.985	1.00		6
MOTA	658	CG2	VAL				25.687		31.213	1.00		6
MOTA	659	С	VAL				26.706		27.726	1.00		6
ATOM	660	0	VAL				27.583		27.735	1.00		8
MOTA	661	N	SER				25.875	47.134	26.702		32.81	7
ATOM	.662	CA			350		26.001	46.252	25.556	1.00	•	6
ATOM	663	CB	SER				25.119	46.665	24.411	1.00		6
ATOM	664	OG	SER				25.209			1.00		8
ATOM	665	С	SER				27.445			1.00		6
ATOM	666	0	SER	A	350		28.116	45.244	25.284	1.00	37.62	8

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ATOM	667	Ŋ	ASP	A	351	27.945	47.367	24.591		28.60	7
ATOM	668	CA	ASP	A	351	29.351	47.437	24.183		29.82	6
ATOM	669	ÇВ	ASP	Α	351	29.808	48.891	24.105		27.49	6
ATOM	670	CG	ASP	A	351	28.875	49.744	23.303	1.00	30.22	6
ATOM	671	OD1	ASP	Α	351	28.055	50.483	23.909	1.00	32.61	8
ATOM	672	OD2	ASP	Α	351	28.942	49.714	22.044	1.00	30.02	8
ATOM	673	С	ASP	Α	351·	30.173	46.653	25.231	1.00	30.63	6
ATOM.	674	0	ASP	Α	351	30.981	45.792	24.903	1.00	29.54	8
ATOM	675	Ń	ALA	A	352	29.939	46.949	26.503	1,00	25.33	7
ATOM	676	CA	ALA			30.623	46.280	27.602	1,00	28.59	6
	677	СВ	ALA			30.072	46.799	28.922	1.00	20.95	6
ATOM	678	C.	ALA			30.492	44.756	27.527	1.00	29.69	6
ATOM	679	ō	ALA			31.481	44.054	27.587	1.00	30.36	8
ATOM	680	N	ILE			29.260	44.260	27.413	1.00	27.63	7
ATOM	681	CA	ILE			29.003	42.832	27.326	1.00	27.55	6
ATOM	682	СВ	ILE			27.512	42.528	27.429	1,00	28.04	6
ATOM	683	CG2	ILE			27.269	41.042	27.289		23.68	6
ATOM	684	CG1	ILE			26.955	42.965			27.33	6
ATOM	685	CD1	ILE			25.452	42.688	28.944	1.00	26.23	б
ATOM	686	C	ILE			29.534	42.207	26.054	1,00	30.88	6
ATOM	687	0	ILE			30.007	41.076	26.068	1.00	31.22	8
ATOM		N	PHE			29.426	42.917	24.939	1.00	29.86	7
ATOM	689	CA	PHE			29.922	42.369	23.686	1.00	31.08	6
ATOM	690	СВ	PHE			29.371	43.146	22.487	1.00	28.80	б
ATOM	691	CG	PHE			28.029	42.643	21.988	1.00	28.80	6
ATOM	692	CD1	PHE			26.872	42.842	22.724	1.00	30.96	6
ATOM	693	CD2	PHE			27.950	41.953	20.783	1.00	29.45	6
ATOM	694	CE1	PHE		•	25.657	42.360	22.250	1.00	27.12	6
ATOM	695	CE2	PHE			26.738	41.470	20.305	1.00	25.19	6
ATOM	696	CZ	PHE			25.590	41.672	21.038	1.00	28.09	6
MOTA	697	С	PHE	Α	354	31.444	42.399	23.682	1.00	29.17	6
ATOM	698	0	PHE	A	354	32.087	41.389	23.398	1.00	32.62	8
ATOM	699	N	ASP	A	355	32.013	43.569	23.980	1.00	23.86	7
ATOM	700	CA	ASP	Α	355	33.466	43,739	24.030	1,00	25.34	6
ATOM	701	CB	ASP	Α	355	33.820	45.053	24.737	1.00	21,41	6
ATOM	702	CG	ASP	A	355	33.841	46.226	23.809	1.00	32.08	6
ATOM	703		ASP			32.979	46.322	22.902	1.00	33.58	8
ATOM	704	ODZ	ASP	Α	355		47.117	23.968		33.20	8
ATOM	705	С	ASP	A	355	34.074	42.559	24.781		27.86	6
MOTA	706	0	ASP	A	355	35.131	42.053	24.410		32.42	8
ATOM	707	N ·	LEU	A	356	33.387	42.128	25.843		26.84	7
ATOM	708	CA	LEU	A	356	33.845	40,993	26.642	1.00	28.66	6
ATOM	709	CB	LEU	A	356	32.893	40.747	27.825	1.00	25.37	6
ATOM	710	CG	LEU	Α	356	33.235	39.608	28.755	1.00	27.61	6
ATOM	711	CD1	LEU	Α	356	34.538	39.917	29.451	1.00	25.43	6
MOTA	712	CD2	LEU	Α	356	32.149	39.414	29.765	1.00	27.49	6
MOTA	713	С	LEU	A	356	33.849	39.779	25.723	1.00	30.44	6
	714	0	LEU			34.884	39.160	25.470	1.00	31.55	8
ATOM	715	N	GLY			32.661	39.451	25.218	1.00	32.69	7
ATOM	716	CA	GLY			32.511	38.304	24.338	1.00	29.87	6
ATOM	717	С	GLY			33.653	38.157	23.359	1.00	33.12	6
ATOM	718	0	GLY			34.302	37.110	23.323		29.41	8
ATOM	719	N	MET			33.876	39.206	22.564	1.00	33.31	7
ATOM	720	CA	MET			34.949 ·	39.206	21.580	1.00	35.87	6

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MOTA
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MOTA
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ATOM
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MOTA
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ATOM
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MOTA
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MOTA
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MOTA
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                   MET A 379
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ATOM	883	С	MET	A	379	31.485	35.448	46.727		33.72	6
ATOM.	884	Q	MET	A	379	32.567	35.450	47.305	1.00	36,29	8
ATOM	885	N	SER	Α	380	30.889	36.555	46.315	1.00	34.49	7
ATOM	886	CA	SER	Α	380	31.498	37.853	46.550	1.00	33.97	6
ATOM	887	CB	SER	A	380	30.921	38.890	45.576	1.00	31.24	6
ATOM	888	OG	SER	A	380	31.205	38.543	44.230	1.00	39.42	8
ATOM	889	С	SER			31.179	38.239	47.992	1.00	39.69	6
ATOM	890	0	SER	Α	380	30.029	38.446	48.357	1.00	44.64	8
ATOM	891	N	SER	A	381	32.214	38.313	48.812	1.00	41.04	. 7
ATOM	892	CA	SER	Α	381	32.060	38.640	50.216	1,00	44.91	б
ATOM	893	CB	SER			33.324	38.234	50.951	1.00	44.50	6
MOTA	894	QG	SER			34.431	39.002	50.510	1.00	45.42	8
ATOM	895	C	SER			31.795	40.106	50,499	1.00	44.59	ઠ
ATOM	896	0	SER			31.476	40.470	51.618	1,00	49.32	8
ATOM	897	N	ASP			31.939	40.942	49.486	1.00	43,75	7
ATOM	898	CA	ASP			31.744	42.362	49.641	1,00	43.93	6
MOTA	899	СВ	ASP			32.673	43.111	48.677	1,00	48.39	6
ATOM	900	CG	ASP			32.572	42.624	47.263	1,00	53.23	· 6
MOTA	901	OD1	ASP			32.705	41.400	47.034	1,00	56.97	8
MOTA	902	OD2	ASP			32.358	43.454	46.333	1,00	58.91	8
ATOM	903	Ċ	ASP	Α	382	30.314	42.885	49.507	1.00	41.09	6
ATOM		. 0	ASP	Α	382	30.048	44.036	49.845	1.00	40.93	8
ATOM	905	N	ARG	A	383	29.397	42.049	49.034	1.00	42.63	7
MOTA	906	CA	ARG	A	383	28.036	42,485	48.876	1.00	43.32	6
ATOM	907	ÇВ	ARG	A	383	27.138	41.332	48.443	1.00	42.31	6
ATOM	908	CG	ARG	Α	383	27.651	40.399	47.352	1.00	40.83	6
ATOM	909	CD	ARG	A	383	27.586	40.954	45.925		38.09	6
ATOM	910	NE	ARG	A	383	27.768	39.878	44.975	1.00	37.33	7
ATOM	911	CZ	ARG	A	383	28.037	40.058	43.693		38.35	6
MOTA	912	NH1	ARG			28.142	41.292	43.198		33.70	7
MOTA	913	NH2	ARG		•	28.194	38.992	42.918		35.46	7
MOTA	914	С	ARG			27.523	42.989	50.216		44.96	6
MOTA	915	0	ARG			27.744	42.344	51.260		45.60	-8
MOTA	916	N	PRO			26.852	44.144	50.223		45.33	7
MOTA	917	CD	PRO			26.625	44.964	49.027		46.85	6
ATOM	918	CA	PRO			26.298	44,738	51.446		47.37	6
MOTA	919	CB	PRO			25.841	46.130	51.012		46.90	6
MOTA	920	CG	PRO			26.075	46,229	49.567		46.41	6
ATOM	921	С	PRO			25.158	43.919	52.049		48.29	б
MOTA	922	0	PRO			24.404	43.264	51.329		48.34	8
MOTA	923	N	GLY			25.039	43.983	53.383		49.88	7
MOTA	924	CA	GLY			23.991	43.270	54.113		50.35	6
MOTA	925	С	GLY			24.347	41.852	54.495		50.70	6
ATOM	926	0	GLY			23.614	41.204	55.244		53.48	8
ATOM	927	N	LEU			25.466	41.371	53.955		49.04	7
ATOM	928	CA	LEU			25.901	40.017	54.215		50.53	6
MOTA	929	СВ	LEU			27.224	39.751	53.492		45.17	. 6
MOTA	930	CG	LEU			27.152	39.592	51.993		48.26	6
MOTA	931	CD1	LEU			28.542	39.439	51.404		41.68	6
ATOM	932	CD2	LEU			26.302	38.374	51.682		38.40	6
MOTA	933	С	LEU			26.045	39.776	55.691		52.13	6
ATOM	934	0	LEU			26.296	40.692	56.459		53.67	8
MOTA	935	N	ALA			25.861	38.522	56,077		53,42	7
ATOM	936	CA	ALA	A	38 /	25.976	38.129	57.470	1.00	56.01	6

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	ATOM	937	СВ	ALA	A 38	37	24.802	37.234	57.854	1.00	56.47	6	•
	MOTA	938	C	ALA			27.289	37.385	57.659	1.00	55.52	6	
	ATOM	939	0	ALA			28.275	37.940	58.134	1.00	53.75	8	
	ATOM	940	N	CYS			27.273	36.120	57.253	1.00		. 7	
	ATOM	941	CA	CYS			28.412	35,236	57.370	1.00		6	
	ATOM	942	CB	CYS			27.923	33.803	57.172	1.00		6	
•	ATOM	943	SG	CYS			26.397	33.431	58.009	1.00		16	
	ATOM	944	C	CYS			29.482	35,581	56.328	1.00		6	,
	ATOM	945	Ö	CYS			29.720	34.821	55.400	1.00		8	
	MOTA	946	N	VAL			30.110	36.747	56.495		60.78		
	ATOM	947	CA	VAL			31.173	37,212	55.590	1.00		6	
		948	CB	VAL			31.740	38.567	56.024	1.00		6	
	ATOM	949		VAL			32.795	39.037	55.041	1.00		6	
	ATOM	950		VAL			30.640	39.598	56.171	1.00		6	
	ATOM	951	C	VAL			32.297	36.182	55.550	1.00		6	
	ATOM	952	Ö	VAL			32.358	35.336	54.662	1.00		8	
•	ATOM	953	N.	ALA			33.182	36,292	56.528	1.00		. 7	•
	ATOM	954	CA	ALA			34.347	35.431	56.684	1.00		6	
	ATOM	955	CB	ALA			34.703	35.321	58.185		•	6	
	ATOM	956	C	ALA			34.224	34.040	56.082	1.00		6	•
	ATOM	957	<u> </u>	ALA			35.107	33.597	55.348	1.00		8	
	ATOM	958	N	ARG			33.117	33.366	56.391	1.00		7	
	ATOM	959	CA	ARG			32.879	32.018	55.885	1.00		6	
	ATOM	960	СВ	ARG			31.520	31.498	56.383	1.00		6	
	ATOM	961	CG	ARG			31.267	30.012	56.059	1.00		6	
	ATOM	962	CD	ARG			29.930	29.489	56.602	1.00		6	
	ATOM	963	NE	ARG			29.787	28.044	56.454	1.00		7	
	ATOM	964	CZ	ARG			30.573	27.140	57.043	1.00		6	
	ATOM	965		ARG			31.598	27.535	57.806	1.00	85.28	7	
	ATOM	966		ARG			30.340	25.840	56,849	1.00	86.84	. 7	
	ATOM	967	С	ARG			32.922	31,986	54.358	1.00	48,18	6	•
	ATOM	968	0	ARG .			33.494	31.080	53.756	1.00	49.57	8	
	ATOM	969	N	ILE .	A 39	2	32.281	32.993	53.762	1.00	45.01	7	
	ATOM	970	CA	ILE .	A 39	2	32.196	33.148	52.319	1.00	48.77	6	
	ATOM	971	СВ	ILE .	A 39	2	31.224	34.297	51.963	1.00	46.45	6	
	ATOM	972	CG2	ILE .	A 39	2	31.241	34.582	50.479	1.00	42,35	6	
	ATOM	973	CG1	ILE .	A 39	2	29.791	33.953	52.402	1.00	49.69	б	
	ATOM	974	CD1	ILE .	A 39	2	28.792		52.113	1,00		. 6	
	MOTA	975	С	ILE .	A 39	2	33.554		51.641	1.00		6	
	ATOM	976	0	ILE .	A 39	2	33.914	32.605	50.732	1.00		8	
	ATOM	977	N	GLU .	A 39	3	34.298	34.374	52.071	1.00		7	
•	ATOM	978	CA	GLU .	A 39	3	35.592	34.684	51.471	1.00		6	
	ATOM	979	CB	GLU .	A 39	3	36.437	35.561	52.387	1.00	53.97	6	
	ATOM	980	CG	GLU .	A 39	3	36.558	36.966	51.844	1.00	62.18	6	
	ATOM	981	CD	GLU .	A 39	3	37.546	37.777	52.564	1.00	67.69	6	
	ATOM	982	OE1	GLU .	A 39	3	38.149	38.741	52.119	1.00	66.42	8	
	ATOM	983	OE2	GLU .	A 39	3	37.856	37.640	53,729	1.00	70.64	8	
	ATOM	984	С	GLU .	A 39	3	36.341	33.429	51.230	1.00	49.31	6	
	ATOM	985	0	GLU .	A .39	3	36.755	33.089	50.125	1.00	49.53	8	*
	MOTA	986	N	LYS .	A 39	4	36.552	32.730	52.303	1.00	46.07	7	
	MOTA	987	CA	LYS	A 39	4	37.265	31.543	52.078	1.00	45.76	6	
	ATOM	988	CB	LYS .			37.396	30.800	53.373	1.00	43.85	6	
	ATOM	989	CG	LYS .			38.207	31.617	54.394	1.00	40.00	6	
	MOTA	990	CD	LYS .	A 39	4	39.372	32.374	53.705	1.00	40.00	6	

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                                                                                7
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ATOM
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                                                                                б
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                   LEU A 400
MOTA
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ATOM	1046	CD2	LEU			39.065	33,479	42.137		29.44	6
MOTA	1047	С			400	40.941	29.872	42.947		38.84	6
MOTA	1048	0			400	41.367	29.632	41.821		40.38	8
ATOM	1049	N	LEU	А	401	41.464	29.350	44.055		42.79	7
ATOM	1050	CA	LEU	A	401	42.605	28.449	43.988	1.00	43.48	6
MOTA	1051	CB	LEU	Α	401	42.900	27.821	45.355	1.00	44.73	6
MOTA	1052	CG	LEU	Ą	401	44.105	26.899	45.354	1.00	51.39	6
ATOM	1053	CD1	LEU	Α	401	45.374	27.749	45.143	100	50.11	6
MOTA	1054	CD2	LEU	Α	401	44.205	26.122	46.662	1.00	49.30	6
MOTA	1055	C	LEU	Α	401	42.324	27.340	42.981	1.00	41.62	6
ATOM .	1056	0	LEU	Α	401	43.052	27.180	42.004	1.00	45.14	8
ATOM	1057	N	ALA	A	402	41.269	26.574	43.245	1,.00	37.92	7
MOTA	1058	CA	ALA	Α	402	40.873	25.469	42.386	1.00	29.90	6
ATOM	1059	СB	ALA	A	402	39.522	24.928	42.834	1.00	30.70	6
MOTA	1060	С	ALA	Ą	402	40.798	25.909	40.929	1.00	28.88	6
MOTA	1061	0	ALA	A	402	41.277	25.203	40.034	1.00	32.14	8
ATOM	1062	N	PHE	Α	403	40.200	27.086	40.707	1.00	31.07	7
ATOM	1063	CA	PHE	Α	403	40.052	27.642	39.363	1.00	29.90	6
ATOM	1064	CB	PHE	A	403	39.379	29.019	39.438	1.00	27.03	6
MOTA.	1065	CG	PHE	Α	403	38.943	29.574	38,100	1.00	26.97	6
MOŢA	1066	CD1	PHE	A	403	38.228	30.758	38.033	1.00	25.55	б
ATOM	1067	CD2	PHE	A	403	39.224	28.905	36.925	1.00	19.75	6
MOTA	1068	CE1	PHE	Α	403	37.784	31.266	36.808	1.00	27.90	6
MOTA	1069	CE2	PHE	A	403	38.780	29.416	35.694	1.00	22.56	6
MOTA	1070	CZ	PHE	A	403	38.063	30.596	35.640	1,00	22.24	6
ATOM	1071	С	PHE	А	403	41.429	27.756	38.719	1,00	28.82	6
ATOM	1072	0	PHE	Α	403	41.666	27.210	37.646	1.00	26.00	8
ATOM	1073	N	GLU			42.329	28.463	39.402		30.25	7
ATOM	1074	ÇA	GĻU			43.695	28.665	38.922		34.03	6
ATOM	1075	CB	GLU			44.513	29.416	39.983		39.45	6
ATOM	1076	CG	GLU			45.867	29.935	39.489		47.68	6
ATOM	1077	CD	GLU			46.734	30.507	40.571		54.02	6
ATOM	1078	OE1	GLU			46.236	31.298	41.408		57.27	8
ATOM	1079	OE2	GLU			47.956	30.202	40.606		63.85	8
ATOM	1080	С	GLU			44.352	27.322	38.634		36,01	6
	1081	0	GLU				27.112			38.64	8
ATOM	1082	N	HIS				26.420	39.610		29.56	. 7
ATOM	1083	CA	HIS				25.093	39.468		31.69	6
ATOM	1084		HIS				24.228	40.694	•	33.75	6
ATOM	1085		HIS			•		41.908		34.75	6
MOTA	1086		HIS				25.640			34.58	6
ATOM	1087		HIS				23.984	43.130		32.43	7
ATOM	1088		HIS				24.568	44.018		36.15	6
MOTA	1089		HIS				25.561	43.430		39.84	7
ATOM	1090	С	HIS				24.445		•	34.21	6
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MOTA	1092	N	TYR				24.453	38.100		30.83	7
MOTA	1093	CA	TYR				23.859	36.930		28.85	6
ATOM	1094	СВ	TYR				24.080	36.934		31.48	6
ATOM	1095	CG	TYR				23.494	35.709		23.49	6
ATOM	1096	CD1	TYR				22.123	35.532		19.42	б
ATOM	1097		TYR				21.577	34.382		23.80	6
ATOM	1098	CD2	TYR	Α	406	39.646	24.313	34.704	1.00	21.81	6

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CEZ TYR A 406
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MOŢA
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ATOM
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              NH2 ARG. A 410
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               CH2 TRP A 418
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	ATOM	1271	CA	VAL			35.897	39.107	36.866		28.91	6
	MOTA	1272	CB	VAL			36.541	38.460	38.094		29.44	6
	MOTA	1273		VAL			35.673	38.642	39.320		28.81	6
	MOTA	1274		VAL			36.764	36.985	37.849		31.22	6
	MOTA	1275	C	VAL			35.512	40.548	37.161		32.03	б
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	MOTA	1277	N	THR			36.496	41.444	37.124		33.61	7
	ATOM	1278	CA	THR			36.248	42.866	37.356		30.76	6
**	MOTA	1279	CB	THR			37.559	43,670	37.360		32.34	6
	MOTA	1280	OG1	THR			38.209	43.565	38.630		33.07	8
	ATOM	1281	CG2	THR			37.302	45.131	37.015		25.40	6
	ATOM	1282	,C	THR			35.363	43.324	36.211		32.53	6
	MOTA	1283	0	THR			34.357	44.006	36.405		35.19	8
•	MOTA	1284	N	ASP			35.763	42.929	35.006		28.83	7
	ATOM	1285	CA	ASP			35.011	43.272	33.810		35.12	6
	MOTA	1286	CB	ASP			35,556	42.524	32.578		39.14	б
	MOTA	1287	CG	ASP			36.837	43.103	32,057		45.80	6
,	ATOM	1288		ASP			36.982	44.346	32.024		41,97	8
	MOTA	1289		ASP			37.735	42.333	31.616		50.06	8
	ATOM	1290	С	ASP			33.537	42.925	34.028		33.94	
	ATOM	1291	0	ASP			32.659	43.712	33.702		38.02	8
	ATOM	1292	N	LEU			33.283		34.584		27.15	7
•	ATOM	1293	CA	LEU			31.925	41.293	34.850		29.99	6
	ATOM	1294	CB	LEU			31.924	39.786	35.133		22.49	6
	ATOM	1295	CG	LEU			32.104	38.873	33.939		25.54	6
	ATOM	1296		LEU			32.202	37.421	34.353		20.60	6
	ATOM	1297		LEU			30.920	39.083	33.029		17.24	6
	ATOM	1298	C .	LEU			31.276	42.057	35.991		28.94	6
	ATOM	1299	0	LEU			30.082	42.306	35.939		31.26	8
	ATOM	1300	Ν.	ARG			32.059	42.423	37.011		27.64	7
	ATOM	1301	CA	ARG			31.527	43.162	38.147		28.13	6
	ATOM	1302	СВ	ARG			32.564	43.298	39.264		29.59	6
	ATOM	1303	CG	ARG			32.818	42.040	40.080		34.85	6
	ATOM	1304	CD	ARG			33.588	42.360	41.367		47.18	6
	ATOM	1305	NE	ARG			34.093	41.175	42.049		57.93	7
	ATOM	1306	CZ	ARG			33.327	40.210	42.547		63.62	6
	ATOM	1307		ARG			31.998	40.270	42.396		60.71	7
	ATOM	1308		ARG			33.900	39.165	43.150		62.38	7
	ATOM	1309	С	ARG			31.099	44.536	37.707		29.81	6
	ATOM	1310	0	ARG			30.044	45.009	38.101		30.81	8
	MOTA	1311	N	MET			31.941	45.176	36.901		29.64	7
	MOTA	1312	CA	MET			31.644	46.502	36.383		34.72	6
	MOTA	1313	CB	MET			32.745	46.955	35.434		34.97	б
	ATOM.	1314	CG	MET	A	430	33.937	47.597	36.080	1.00	45.34	6

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n moM	1315	SD	MET	70	430		33.520	49.120	36.937	1.00	52.55	16
ATOM	1315	CE	MET				32.942	50.174	35.585	.,	55.56	6
ATOM		CE	MET				30.315	46.455	35,634	-	34.01	6
ATOM	1317		MET				29.455	47.295	35.854		37.29	8
ATOM	1318	0	ILE				30.180	45.468	34.740		29.99	7
ATOM	1319	N					28.954	45.269	33.969		28.82	6
ATOM	1320	CA			431	•		43.269	33.211		27.39	6
ATOM	1321	CB			431		28.962				23.87	6
ATOM	1322	CG2	ILE				27.622	43.671	32.572			6
MOTA	1323	CG1	ILE				30.044	43.920	32.138		25.56	5
ATOM	1324	CD1	ILE				29.989	42.703	31.244		17.29	6
MOTA	1325	C	ILE				27.769	45.269	34.907		29.49	
ATOM	1326	0	ILE				26.810	45.993	34.712		24.19	8 7
ATOM	1327	N	GLY				27.839	44.435	35.936		25.25	
ATOM	1328	CA			432		26.748	44.343	36.890		30.38	6
ATOM	1329	С	GLY				26.494	45.671	37.554		32.75	6
MOTA	1330	0	GLY				25.411	46.206	37.469		36.38	8
ATOM	1331	N _.	ALA				27.514	46.189	38.221		26.77	7
MOTA	1332	CA	ALA				27.428	47.459	38.910		26.48	6
ATOM	1333	CB			433	•	28.836	47.970	39.203		19.90	6
MOTA	1334	С	ALA				26.663	48.502	38.114		30.73	6
ATOM	1335	0	ALA				25.773	49.164	38.635		31.60	8
ATOM	1336	N	CYS				27.027	48.654	36.854		33.22	7
MOTA	1337	CA	CYS				26.371	49.616	35.996		34.34	6
MOTA	1338	CB	CYS				27.047	49.612	34.711		35.20	6
MOTA	1339	SG	CYS			•	27.789	50.811	34.285		54.48	16
ATOM	1340	C	CYS				24.974	49.198	35.612		34.09	. 6
ATOM	1341	0	CYS				24.107	50.040	35.415		34.89	8
MOTA	1342	N	HIS				24.756	47.898	35.447		34.30	7
MOTA	1343	CA	HIS				23.453	47.423	35.042		35.44	. 6
MOTA	1344	CB	HIS				23.404	45.904	35.104		31.76	6
ATOM.	1345	CG	HIS				22.099	45.351	34,675		32.03	6 6
ATOM	1346		HIS				21,697	44.790	33.519		28.61	
ATOM	1347		HIS				20.941	45.482	35.452			7
MOTA	1348		HIS				19.912	45.025	34.759		33.27	6 7
ATOM	1349		HIS				20.345	44.597	33.583		31.57	6
ATOM	1350	C	HIS				22.400	47.974	35.972		32.74 32.87	8
MOTA	1351	0	HIS				21.304	48.284	35.565			7
ATOM	1352	N	ALA				22.777	48.046	37.241		31.01	. 6
ATOM	1353	CA	ALA				21.910		38.266		29.91 21.23	6
MOTA	1354	CB	ALA			•	22.661	48.595	39.580			
ATOM	1355	С	ALA				21.475	49.969	37.884		33.86	б
ATOM	1356	Q	ALA				20.296	50.298	37.910		36.10	8
ATOM	1357	N	SER				22.453	50.795	37.532		35.19	7
MOTA	1358	CA	SER				22.172	52.167	37.140		33.03	6
MOTA	1359	CB	SER				23.441	52.815	36.603		35.31	6
MOTA	1360	OG	SER				23.203	54,151	36.193		44.99	8
ATOM	1361	С	SER				21.110	52.158	36.055		38.39	6
MOTA	1362	0	SER				20.049	52.745	36.204		37.54	8
MOTA	1363	N	ARG				21.432	51.483	34.956		37.32	7
MOTA	1364	CA	ARG				20.534	51.379	33.821		39.30	6
ATOM	1365	CB	ARG				21.114	50.402	32.786		42.97	6
ATOM	1366	CG	ARG				22.343	50.911	32.051		41.72	6
ATOM	1367	CD	ARG				21.955	52.134	31.251		45.23	6
ATOM	1368	NE	ARG	A	438		20.964	51.839	30.237	1.00	45.66	7

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	ATOM	1369	CZ	ARG A	438	20.063	52.718	29.809	1.00 49.7	1 6	<u>.</u> .	
	ATOM	1370		ARG A		20.046	53.958	30.318	1.00 50.9			
	ATOM	1371		ARG A		19.198	52.354	28.865	1.00 46.8			
	ATOM	1372	С	ARG A		19.147	50.922	34.240	1.00 42.3			
	ATOM	1373	0	ARG A		18.147	51.297	33.625	1.00 40.5			
	ATOM	1374	N	PHE A		19.080	50.120	35,298	1.00 42.2			
	ATOM	1375	ÇA	PHE A		17.803	49.624	35.763	1.00 42.8			
	ATOM	1376	СВ	PHE A		17.975	48.794	37.013	1.00 42.1			
	ATOM	1377	CG	PHE A		16.739	48.053	37.413	1.00 42.40			•
	ATOM	1378	CD1	PHE A	439	16.198	47.111	36.562	1.00 47.09	9 6		
	ATOM	1379	CD2	PHE A	439	16.105	48.320	38.613	1.00 39.7	6 · 6		
	ATOM	1380	CE1	PHE A	439	15.047	46.427	36.905	1.00 49.1	7 6		
	ATOM	1381	CE2	PHE A	439	14.940	47.630	38.963	1.00 45.10) 6		
	ATOM	1382	CZ	PHE A	439	14.411	46.683	38.098	1.00 46.3	5 6		
	ATOM	1383	С	PHE A	439	16.921	50.803	36.075	1,00 44.79	9 6		
	ATOM	1384	0	PHE A	439	15.830	50.903	35.554	1.00 40.2	б 8		
	ATOM	1385	N	LEU A	440	17.410	51.681	36.951	1.00 42.7			•
,	ATOM	1386	CA	LEU A		16.660	52.871	37.344	1.00 42.9			
	ATOM	1387	CB	LEU A		17.546	53.824	38.150	1.00 37.1			
	MOTA	1388	CG	LEU A		17.943	53.297	39.500	1.00 36.9			
	ATOM	1389		LEU A		18.620	54.389	40.316	1.00 33.6			
	ATOM	1390		LEU A		16.679	52.837	40.216	1.00 35.43			
	ATOM	1391	С	LEU A		16.025	53.596	36.168	1.00 45.4		•	
	ATOM	1392	0	LEU A		14.809	53.750	36.126	1.00 52.4			
	ATOM	1393	N	HIS A		16.836	54.060	35.223	1.00 49.1			
	ATOM	1394	CA	HIS A		16.277	54.725 54.955	34.063 33.031	1.00 54.7			
	ATOM ATOM	1395 1396	CB CG	HIS A		17.329 18.134	56.161	33.282	1.00 62.7			
	ATOM	1390		HIS A		18.468	57.216	32.499	1.00 65.7			
	ATOM	1398		HIS A		18.701	56.431	34.538	1.00 66.0			
	ATOM	1399		HIS A		19.332	57.594	34.473	1.00 65.5			
	ATOM	1400		HIS A		19.205	58.085	33.255	1.00 60.0			
	ATOM	1401	С	HIS A	441	15.244	53.822	33.481	1.00 55.9	3 6		
	ATOM	1402	0	HIS A		14.149		33.170	1.00 57.3			
	ATOM	1403	N	MET A	442	15.605	52.549	33.313	1.00 57.8	1 7		
	ATOM	1404	CA	MET A	442	14.661	51.583	32.778	1.00 59.1	1 6		
	MOTA	1405	CB	MET A	442	15.191	50.154	32.922	1.00 55.9	3 6		
	MOTA	1406	CG	MET A	442	16.336	49.813	32.022	1.00 58.5			
	ATOM	1407	SD	MET A	442	16.681	48.008	31.851	1.00 60.9			
	ATOM	1408	CE	MET A		17.085	47.602	33.581	1.00 52.6			
	MOTA	1409	C	MET A		13.339	51.727	33.534	1.00 60.3			
-	MOTA	1410	0	MET A		12.266	51.560	32.968	1.00 58.1		·	
	ATOM	1411	N	LYS A		13.425	52.054	34.818	1.00 61.4			
	ATOM	1412	CA	LYS A		12.236	52.202	35.626	1.00 64.9			
	ATOM	1413	CB	LYS A		12.608	52.141	37.090	1.00 64.4			
	ATOM	1414	CG	LYS A		11.461	51.748	37.959	1.00 69.13			
	ATOM	1415	CD	LYS A		12.068	51.551	39.257	1.00 71.1			
	ATOM	1416	CE	LYS A		11.368	51.897	40.091	1.00 73.43			
	ATOM	1417	NZ.	LYS A		11.883	51.712	41.415	1.00 67.9			
	ATOM	1418	C	LYS A		11.513	53.514	35.348	1.00 67.29			
	ATOM	1419	O N	LYS A		10.390	53.700		1.00 67.90 1.00 66.5			
-	ATOM	1420	N	VAL. A		12.171 11.575	54.429 55.719	34.629 34.297	1.00 64.7			
	ATOM	1421	CA CB	VAL A		12.569	56.869	34.297	1.00 64.7			
	ATOM	1422	CD	VAL A	444	12.309	50.009	34.500	1.00 02.7	. 0		

ATO		1423	CG1	VAL				11.952		58.195		4.174		64.00	6
ator		1424	CG2	VAL				12.999		56.891		6.035		59.27	6
OTA	M	1425	C	VAL	A	444		11.043	. !	55.730	3	2.861	1.00	68.61	6
OTA	M	1426	0	VAL	A	444		9.937	,	56.210		2.612		70.60	8
ATO	M	1427	N	GLU	A	445		11.814	;	55.173	3	1.935	1.00	70.71	7
ATO	M	1428	CA	GLU	A	445		11.457	:	55.152	3	0.514	1.00	71,45	6
ATOR	M	1429	CB	GLU	A	445		12.725	. !	55,255	2	9.664	1.00	72.36	6
ATO	M.	1430	CG	GLU	A	445		13.598	9	56.429	3	0.022	1,00	40.00	6
ATO	M	1431	CD	GLU	A	445		14.875	, ;	56.472	2	9.239	1.00	40.00	6
ATO	M	1432	OE1	GLU	A	445		15.155	. !	55.565	2	8.414	1.00	40.00	8
ATO	À	1433	OE2	GLU	A	445		15.663	. !	57.430	2	9.430	1.00	40.00	8
ATO	M	1434	c	GLU	A	445		10.724		53.912	3	0.049	1.00	71.46	6
ATO	vj	1435	0	GLU	A	445		10.536	;	53.701	2	8-844	1.00	73.02	8
OTA	4	1436	N	CYS	A	446		10.301		53.099	3	0.999	1.00	71.12	7
ATO	4	1437	CA	CYS	Ą	446		9.628		51.899	3	0.634	1.00	70,83	6
ATON		1,438	CB	CYS				10.595	. !	50.719		0.687	1.00	71.05	6
ATON		1439	SG	CYS				12.009	. !	50.842		9.573		72.83	16
ATON		1440	C.	CYS				8.454		51.671	3	1.535	1.00	71.91	6
ATON		1441	O .	CYS				8.495		52.014		2.728	1.00	72.06	8
ATON		1442	N	PRO	A	447		`7.372		51.133		0.978	1.00	73.12	7
ATON		1443	CD	PRO				7.267		50.764		9.560	1.00	72,88	6
ATON		1444	CA	PRO	Α	447		6.150	. !	50.853	3	1.740	1.00	74.22	6
ATON		1445	СВ	PRO	Α	447		5.187		50.281		0.714	1.00	72.98	6
ATON	4	1446	CG	PRO	A	447		5.875		50.271	2	9.437	1.00	74,77	6
ATON		1447	С	PRO	A	447		6.435	. 4	49.843	3	2.831	1.00	75.94	6
ATON	1	1448	0	PRO	Α	447		7.181	4	48.908	3	2.612	1,00	76.67	. 8
ATON	1	1449	N	THR	Α	448		5.820	!	50.002		3.997	1.00	76.91	٠٦
OTA	1	1450	CA	THR	Α	448		6.024	4	49.066	3	5.113	1.00	78.24	6
ATON	4	1451	CB ·	THR	A	448		5.528	4	49.734	3	6.401	1.00	81.33	6
OTA	1	1452	OG1	THR	Α	448		4.105		49.917	3	6.328	1.00	84.46	8
MOTA	4	1453	CG2	THR	A	448		6.192		51.081	3	6.585	1.00	83.51	6
OTA	1	1454	C	THR	Α	448		5.113	. (47.912	.3	4.755	1.00	77.42	6
OTA	4	1455	0	THR	Α	448		4.915	•	46.995	3	5.519	1.00	77.65	8
ATON	1	1456	N·	GLU	A	449		4.539	•	48.021	3	3.565	1.00	76.29	7
OTA		1457	CA	GLU	A	449		3.630	•	47.023	3	3.024	1.00	75.03	6
OTA	1	1458	CB	GLU	A	449		2.600	•	47.773	3	2.191	1.00	74.62	6
NOTA	4	1459	CG	GLU	A	449		2.145		47.051	3	1.001		40.00	6
OTA	1	1460	CĐ	GLU	A	449		1.297		47.889		0.178		40.00	6
OTA	1	1461	OE1	GLU	Α	449		1.479	4	49.137	3	0.146	1.00	40.00	8
OTA	1	1462	OE2	GLU	A	449		0.424	•	47.322	2	9.497	1.00	40,00	8
ATON	4	1463	С	GLU	Α	449		4.434	4	46.036	3	2.179		73.49	6
MOTA	1	1464	0	GLU	A	449		3.882	•	45.142	3	1.559	1.00	70.24	8
MOTA	1	1465	N	LEU	A	450		5.747	4	46.224	3	2.161	1.00	70.80	7
ATON	1	1466	CA	LEU	Α	450		6.608	4	45.347	3	1.378	1.00	68.82	6
MOTA	1	1467	CB	LEU	Α	450		7.301	4	46.154	3	0.277	1.00	71.91	6
MOTA	1	1468	CG	LEU	Α	450		6.464	4	46.819	2	9.217	1.00	76.62	б
OTA	1	1469	CDl	LEU	A	450		7.337	4	47.662	2	8.328	1.00	77.95	6
ATON	1	1470	CD2	LEU	A	450	*	5.786	4	45.750	2	8.415	1.00	76.46	6
OTA	4	1471	С	LEU	Α	450		7.669	4	44.673	3	2.243	1.00	66.22	6
ATON	1	1472	0	LEU	A	450		8.427	4	43.841	3	1.752	1.00	66.01	8
ATON		1473	N	PHE	Α	451		7.705		45.039	3	3.530	1.00	61.96	7
ATON		1474	CA	PHE	А	451		8.681	•	44.506	3	4.480	1.00	58.44	6
ATON		1475	CB	PHE	A	451		9.041	4	45.562	3	5.540	1.00	61.34	6
ATON	4	1476	CG	PHE	Α	451		9.873	. 4	46.717	3	5.008	1.00	63.02	6

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ATOM	1477	CD1				9.426	47.509	33.963	1.00	62.92	6
atom	1478	CD2	PHE	A	451	11.089	47,017	35,593	1.00	63.07	6
ATOM	1479	CE1	PHE	A	451	10.199	48.598	33.521	1.00	65.12	б
ATOM	1480	CE2	PHE	A	451	11,860	48.102	35.156	1.00	64.66	6
ATOM	1481	cz	PHE	A	451	11.410	48.897	34.118	1.00	67.12	6
ATOM	1482	С	PHE	A	451	8.259	43.264	35.260		56.41	6
ATOM	1483	0			451	7.641	43.392	36.331		56.56	8
ATOM	1484	N			452	8.555	42.045	34.755		53.28	7
ATOM	1485	CD			452	9.177	41.689	33,481		50.46	6
ATOM	1486	CA			452	8.153	40.859	35.543		50.26	6
ATOM	1487	CB			452	8.739	39,680	34,780		49.19	6
ATOM	1488	CG			452	9.178	40.206	33.482		45,89	6
ATOM	1489	Ç			452	8.770	40.999	36.935		49.62	6
ATOM	1490	Ö			452	9.867	41.529	37.094		52.35	. 8
ATOM	1491	N			453	8.139	40.425	37.947		51.50	7
ATOM	1492	CD			453	7.001	39.542	37.797		49.66	6
ATOM	1493	CA			453	8.610	40.528	39.323		50.89	6
ATOM	1494	CB			453	7.675	39.659			51.49	6
ATOM	1495	CG			453	6.703	39.141	39.185		50.82	6
ATOM	1496	C			453	10.015	40.084	39.532		50.99	6
MOTA	1497	0			453	10.876	40.900	39.838		54.17	8
ATOM	1498	N			454	10.255	38.781	39.423	•	51.21	7
ATOM	1499	CA			454	11.585	38.298	39.674		47.17	6
ATOM	1500	СВ			454	11.813	36.962	38.975		44.44	. 6
ATOM	1501	CG			454	13.167	36.375	39.289		41.33	6
ATOM	1502	CD1				13.524	36.638	40.720		35.93	6
ATOM	1503	CD2	LEU			13.169	34.907	38.992		34.79	6
ATOM	1504	С	LEU			12.541	39.375	39.182		42.25	6
ATOM	1505	0	LEU			13.477	39.718	39.886		40.82	8
ATOM	1506	N			455		39.957	38.011		39.29	7
ATOM	1507	CA	PHE	A	455	13.133	41.005	37.473		41.81	6
ATOM	1508	CB	PHE	A	455	12,527	41.592	36.192	1.00	47.22	6
ATOM	1509	CG	PHE	A	455	13.433	42.565	35.467	1.00	56,97	6
ATOM	1510	CD1	PHE	A	455	14.715	42.189	35.135	1.00	57,23	6
ATOM	1511	CD2	PHE	Α	455	12.999	43.840	35,126	1.00	59.40	-6
ATOM	1512	CE1	PHE	Α	455	15.557	43.059	34.466	1.00	56.58	6
ATOM	1513	CE2	PHE	Α	455	13,848	44.716	34.452	1.00	61.80	6
ATOM	1514	CZ	PHE	A	455	15.129	44.322	34.126	1.00	59.94	6
MOTA	1515	С	PHE	A	455	13.273	42.085	38.534	1.00	45.12	6
ATOM	1516	0	PHE	Α	455	14.361	42,323	39.034	1.00	39.95	8
ATOM	1517	N	LEU	A	456	12.155	42.735	38.849	1.00	43.92	7
ATOM	1518	CA	LEU	Α	456	12.122	43.803	39.840	1.00	44.08	6
ATOM	1519	CB	LEŲ	A	456	10.680	44.251	40.093	1.00	50.20	6
MOTA	1520	CG	LEU	Α	456	10.062	45.242	39.144	1.00	55.79	6
ATOM	1521	CD1	LEU	A	456	8.598	45.432	39.450	1.00	54.70	6
ATOM	1522	CD2	LEU	A	456	10.807	46.548	39.295	1.00	53.01	6
ATOM	1523	С	LEU	Α	456	12.739	43.355	41.136	1.00	44.65	6
ATOM	1524	0	LEU	Α	456	13.597	44.022	41.685	1.00	45.93	8
MOTA	1525	N	GLU	A	457	11.973	41.761	41.851	1.00		7
MOTA	1526	CA	GLU	A	457	12.475	41.179	43.105	1.00		6
ATOM	1527	C	GLU	Α	457	14.005	41,236	43.132	1.00		6
ATOM	1528	0	GLU	Α	457	14.583	41.724	44.117	1.00		8
ATOM	1529	СВ	GLU	Α	457	12.024	39.723	43.223	1.00		6
ATOM	1530	CG	GLU	А	457	11.114	39.476	44.427	1.00		6

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GLU A 457
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ATOM
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              OE2 GLU A 457
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ATOM
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ATOM
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MOTA
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ATOM
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ATOM
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ATOM	17	N	GLU	В	213	-26.058	69,424	40.032	1.00	40.31	7
ATOM	18	CA	GLU	В	213	-27.081	69.290	39.003	1.00	43.87	6
ATOM	19	CB			213	-27.895	68.004	39.265	1.00	45,16	6
ATOM	20	CG			213	-27.032	66.709	39,286	1.00	47.60	6
ATOM	21	CD			213	-27.807	65.421	39.199		50,68	6
ATOM	22	OE1	GLU		213	-28.847	65.244	39.886		59.18	8
ATOM	23	OE2	GLU		213	-27.382	64.516	38.442		49,06	8
ATOM	24	C			213	-27.924	70.576	39.080		45.96	6
ATOM	25	0	GLU			-27.624	71.467	39.859		43.13	8
	26	Ŋ			214	-28.987	70.698	38.308		46.52	7
ATOM	27	CD			214	-29.484	69.635	37.446		46.44	6
ATOM					214	-29.843	71.907	38.302		47.52	6
ATOM	28	CA					71.639	37.210		45.40	6
ATOM	29	CB			214	-30.799				49.89	6
MOTA	30	CG			214	-30.530	70.257	36,805			6
ATOM	31	С	PRO			-30.574	72.330	39.535		45,70 44.49	8
ATOM	32	0			214	-30.597	71.595				7
ATOM	33	N			215	-31.180	73.515	39.506		45.24	
ATOM	34	CA			215	-31.965	74.036	40.652		49,36	6
ATOM	35	CB			215	-31.443	75.420	41.091		44.86	6
ATOM	36	OG1			215	-32.249	76.464			52.26	8
MOTA	37	CG2			215	-30.011	75.617	40.659		39.43	6
MOTA	38	С			215	-33.386	74.239	40.114		52.51	6
MOTA	39	0			215	-33.562	74.868	39.078		53.48	8
ATOM	40	N			216	-34.387	73.741	40.829		58.81	7
ATOM	41	CA	ASP		216	-35.795	73.865	40.435		61.51	6
ATOM	42	CB	ASP		216	-36.674	74.005	41.650	1.00	70.57	· 6
MOTA	43	CG	ASP		216	-37.675	72.981	41.710	1.00	78.07	6
MOTA	44	OD1	ASP			-38.228	72.588	40.652		82.31	8
ATOM	45		ASP	-		-37.983	72.567	42.830		86.55	8
MOTA	46	C	ASP	В	216	-35.920	75.123	39.648		58.42	6
MOTA	47	0	ASP		216	-36.847	75.317	38.827		56.85	8
ATOM	48	N	GLU		217	-34.954	75.979	39.984		54.92	7.
ATOM	49	CA	GLU	В	217	-34.851	77.259	39.353		53.37	6
MOTA	50	СВ			217	-34.104	78.264	40.251	1.00	51.02	6
ATOM	51	CG	GLU			-34.151	79.689	39.679		40.00	6
MOTA	52	CD	GLU			-34.301	80.745	40.739		40.00	6
MOTA	53	OE1	GLU			-34.089	80.443	41.945		40.00	8
MOTA	54	OE2			217	-34.625	81.921	40.411		40.00	8
ATOM	55	С	GLU			-34.232	77.163	37.957		53.55	6
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ATOM	57	N	GLU			-33.063	76.572	37.839		49.20	7
MOTA	58	CA	GLU	В	218	-32.318	76.385	36.608		45.94	6
ATOM	59	CB	GLU	В	218	-30.965	75.793	36,981		43.43	6
ATOM	60	CG	GLU	В	218	-30.065	76.728	37.801	1.00	40.86	6
ATOM	61	CD	GLU	В	218	-28.713	76.159	38.072	1.00	39.88	6
ATOM	62	OE1	GLU	В	218	-28.606	74.967	38.449	1,00	37.61	8
ATOM	63	OE2	GLU			-27.707	76.901	37.945	1.00	34.01	8
ATOM	64	С	GLU			-33.014	75.475	35.610	1.00	44.71	.6
ATOM	65	0	GLU			-32.935	75.686	34.405	1.00	45.31	8
ATOM	66	N	TRP			-33.669	74.439	36.131	1.00	44.02	7
ATOM	67	CA	TRP			-34.368	73.490	35.290		46.97	6
ATOM	68	СB	TRP			-35.046	72.408	36.119		48.42	6
-											

OTA	4 69	g ÇG	TRP	В	219		-34.195	71.230	36.374	1.00	54.61	6
ATO	4 70	CD2	TRP	В	219		-34.048	70.120	35.478	1.00	\$5.24	ଞ
ATON	4 7]	L CE2	TRP	В	219		-33.076	69.248	36.063	1.00	53.67	6
ATON	4 72	CE3	TRP	В	219		-34.615	69.771	34.252	1.00	54.55	6
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ATO		NE1	TRP	В	219		-32.697	69.838	37.236		54.43	7
ATO					219		-32.635	68.075	35.431		52.54	6
ATO					219		-34.214	68.603	33.643		55.17	6
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10TA					219		-35.409	74.199	34.459		47.32	
OTA					219		-35.561	73.914	33.277		43.56	8
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10TA					220		-37.158	75.874	34.402		53.57	
			GLU		220		-37.136	76.820	35.373		58.18	6 6
ATON					220		-37.811		35.221			
ATON							-39.231 -39.824	76.812	•		73.13	6
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ATOM			•		221		-35.312	77,135	33.455		43.71	7
ATOM					221		-34.604	77.884	32.411		42.81	6
ATOM					221		-33.214	78.324	32.865		39.21	
ATOM			LEU		221		-32.321	78.833	31.754		36.34	6
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ATOM			ILE				-34.991	74.627	29.598		34.26	6 6
ATOM			ILE				-34.991	74.827				
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ATOM		N	THR				-37.146	76.156	28.979		39.89	7
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ATOM			THR				-37.273	79.805	27.893		38.11	6
ATOM			THR				-36.521	77.094	26.789		39.96	6
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ATOM	122	CA	VAL	В	225		-34.263	77.295	25.801	1.00	38.12	6

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. ATOM
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               CG2 VAL B 230
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ATOM
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                                                                 1.00 43.97
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MOTA
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MOTA
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               CA
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                                                       10.690
                                                                1.00 76.32
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ATOM
         189
               CB
                   GLN B 235
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ATOM
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ATOM
ATOM
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                                                       13.524
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MOTA
         205
              N
                   HIS B
                          238
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ATOM
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                   TRP
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                                              64.786
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ATOM
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              CE3 TRP
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ATOM
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AŢOM
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              CH2 TRP
                        В
                         239
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                        B 239
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ATOM
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                   LYS B
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                                                                1.00 65.63
                                                                               б
ATOM
              CA
                       В
                   LYS
                       В
                         240
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                                                                1.00 66.65
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ATOM
                       В
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MOTA
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                         240
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ATOM
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              CD
                   LYS
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ATOM
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ATOM
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ATOM	232	0	LYS	B	240		-34.321	60.673	6.031	1.00	65.20	8
atom	233	N	ASN	B	241		-35.986	61.727	7.139	1.00	66.69	7
ATOM	234	CA	asn	В	241		-37.031	61.393	6.171	1.00	67.53	6
ATOM	235	CB	ASN	В	241		-38.240	60.846	6.915	1.00	67.98	6
MOTA	236	CG	ASN	В	241		-37.966	59.479	7.544	1.00	70.19	6
ATOM	237	OD1	ASN	В	241		-37.561	58.526	6.845	1.00	71.37	8
ATOM	238	ND2	ASN	В	241		-38.205	59,370	8,836	1.00	71.48	· 7
ATOM	239	C	ASN	В	241	•	-37.496	62.532	5.255	1.00	66.62	б
ATOM	240	0	ASN	В	241		-38.504	62.395	4.578	1.00	64.76	8
ATOM	241	N	LYS	В	242°		-36.753	63.633	5.209	1.00	66.86	7
ATOM	242	CA	LYS	В	242		-37.096	64.772	4.362	1.00	67,46	6
ATOM	243	CB	LYS	В	242		-37.501	65.948	5.258	1.00	67.93	6
ATOM	244	CG	LYS	В	242		-38.746	65.684	6.076	1.00	71.52	6
ATOM	245	CD	LYS	В	242		-40,007	65.528	5.215	1.00	74.32	6
ATOM	246	ÇE			242	•	-40.416	66.852	4.564	1.00	74.41	6
ATOM	247	NZ	LYS	В	242		-40.657	67.941	5.575	1.00	74.44	7
ATOM	248	С	LYS	В	242		-35.826	65.081	3.592	1,00	66.28	6
ATOM	249	0	LYS	В	242		-35.814	65.799	2,601	1.00	67.61	8
ATOM	250	N	ARG	В	243		-34.763	64.485	4.112	1.00	64.19	7
ATOM	251	CA	ARG	В	243		-33.410	64.577	3.591	1,00	62.43	6
ATOM	252	CB	ARG	В	243		-32.599	63.547	4.390	1.00	60.12	6
ATOM	253	CG	ARG	В	243		-31.128	63.558	4.171	1.00	40.00	. 6
ATOM	254	CD	ARG	В	243		-30.335	62.888	5.319	1.00	40.00	6
ATOM	255	NE	ARG	В	243		-30.269	61.428	5.296	1.00	40.00	7
ATOM	256	CZ	ARG	В	243		-29.384	60.724	6,009	1.00	40.00	6
ATOM	257	NH1	ARG	В	243		-28.510	61.357	6.798	1.00	40.00	7
ATOM	258	NH2	ARG	B	243		-29.355	59.401	5.908	1.00	40,00	7
ATOM	259	C	ARG	В	243		-33.408	64.252	2.100	1.00	62.97	. 6
MOTA	260	0	ARG	В	243		-33.690	63.122	1.722	1.00	63.96	8
ATOM	261	N	LYS	В	244		-33.105	65,245	1.270	1.00	62.41	7
MOTA	262	CA	LYS	В	244		-33.054	65.053	-0.179		61.57	6
MOTA	263	CB	LYS	В	244		-34.104	65.941	-0.866		63.68	6
ATOM	264	CG	LYS				-35.527		-0.337	1.00	71.29	б
MOTA	265	CD	LYS				-36.566	66.549	-1.107	1.00		6
ATOM	266	CE	LYS				-36.219	68.045	-1.138		74.71	6
ATOM	267	NZ	LYS				-36.169	68,689	0.219		73.32	7
MOTA	268	С	LYS				-31.658	65.402	-0.670		59.30	6
ATOM	269	0	LYS				-31.317	66.570	-0.852		56.34	8
MOTA	270	N			245		-30.858	64.359	-0.875		57.06	
MOTA	271	CA	PHE				-29.462	64.525	-1.305		59.01	б
ATOM	272	CB	PHE				-28.786	63.179	-1.478		59.62	6
MOTA	273	CG	PHE				-28.991	62.288	-0.339		66.60	6
ATOM	274	CD1	PHE				-30.200	61.669	-0.172		67.17	6
ATOM	275	CD2	PHE				-28.012	62.117	0.593		69.25	6
MOTA	276	CE1	PHE				-30.404	60.882	0.911		69.92	6
MOTA	277	CE2	PHE				-28,229	61.329	1.669		70.50	6
ATOM	278	CZ	PHE				-29.418	60.714	1.830		70.89	6
ATOM	279	С	PHE				-29.301	65.282	-2.592		60.68	6
MOTA	280	0	PHE				-29.859	64.911	-3.619		62.37	8
MOTA	281	N	LEU				-28.495	66.336	-2.505		60.10	7
MOTA	282	CA	LEU		•		-28.201	67.199	-3.631		59.44	6
MOTA	283	CB	LEU				-27.248	68.332	-3.231		57.43	6
ATOM	284	CG	LEU	В	246		-27.118	69.474	-4.207	1.00	54.41	6

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285
               CD1 LEU B 246
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                                                       -4.349
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MOTA
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ATOM
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                                   -27.585
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                                                       -4.740
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                   LEU B 246
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                   GLU B 248
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                        В
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                        В
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                   ASP B
                         249
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ATOM
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                       B 249
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                       B
                         249
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                   ILE
                       B 250
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                                                                               б
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ATOM
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ATOM
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              CD1 ILE
                       B 250
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                   ILE B 250
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                                                                1.00 65,21
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ATOM
         320
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                                                                1.00 64.05
                                                                               8
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                                             71.392
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ATOM
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              CA
                   GLY B 251
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                                             71.721
                                                       -7.342
                                                                1.00 67.32
                                                                               6
         323
                                   -19.808
                                                       -7.800
ATOM
              Ç
                   GLY B 251
                                             70.806
                                                                1.00 68.52
                                                                               6
ATOM
         324
                   GLY B 251
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                                             70.548
                                                       -9.025
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                                                                1.00 65.49
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                   GLN B 252
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                                             70.440
                                                       -6.799
                                                                1.00 72.26
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              CA
                   GLN B 252
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                                                                1.00 74.10
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ATOM
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                                                       -6.723
                                                                1.00 75.82
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ATOM
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                   GLN B 252
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                                                       -6.356
                                                                1.00 77.81
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                   GLN B 252
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                                                       -5.824
                                                                1.00 79.38
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ATOM
              OE1 GLN
                       B 252
ATOM
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                                             65.380
                                                       -4.586
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                   GLN B 252
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                                                       -8.258
                                                                1.00 77.17
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ATOM
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MOTA
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              CA
                   ALA B 253
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              С
                                                       -9.731
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                   ALA B 253
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ATOM
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                                                       -9.752
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ATOM
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                   PRO B 254
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                                                                1.00 35.89
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              CB
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MOTA
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                   PRO B 254
                   PRO B 254
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ATOM
TER
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                                                       -2.979
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                   GLY B 261
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                   GLY B 261
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                   GLY B 262
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                                                       -5.597
                                                                1.00 40.00
MOTA
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                                                       -7.087
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                   GLY B 262
ATOM
           б
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                   GLY B 262
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                   GLY B 262
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                                                       -7.543
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ATOM
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           9
                   LYS B 263
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              CA
                   LYS B 263
ATOM
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                                                       -7.614
                                                                1.00 63.41
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                   LYS B 263
ATOM
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                                                                1.00 61.93
                                                                               8
MOTA
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                   LYS
                       B 263
                   LYS B 263
                                   -13.901
                                              80.405
                                                       -9.876
                                                                1.00 63.50
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ATOM
          13
              CB
          14
              CG
                   LYS B 263
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                                              81.474 -10.881
                                                                1.00 20.00
                                                                               6
MOŢA
                                   -14.016
                                              82.897 -10.612
                                                                1.00 20.00
                                                                               6
                   LYS B 263
ATOM
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                   LYS B 263
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                                              83.874 -11.742
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MOTA
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MOTA
          17
              NZ
                   LYS B 263
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                                              85.287 -11,341
                                                                1.00 20.00
                   VAL B 264
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                                              80.335
                                                       -7.307
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ATOM
          18
              N
                                              79.632
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                   VAL B 264
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MOTA
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ATOM
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                                                                1.00 53.79
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ATOM
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              CG1 VAL B 264
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          22
              CG2 VAL B 264
                                   -16.847
                                              81.938
                                                       -5.562
                                                                1.00 55.32
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ATOM
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                                                                1.00 60.96
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                   VAL B 264
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ATOM
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                                                       -8.873
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MOTA
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ATOM
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                   ASP B 265
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                   ASP B 265
ATOM
                   ASP B 265
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              CG
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              OD2 ASP B 265
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                                                       -8.016
                                                                1,00 65.64
                                                                               б
MOTA
          31
              С
                   ASP B 265
ATOM
          32
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                   ASP B 265
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                                              78.737
                                                       -8.588
                                                                1.00 65.12
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              N
ATOM
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                   LEU B 266
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ATOM
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                   LEU B 266
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                   LEU B 266
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ATOM
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MOTA
MOTA
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              CD2 LEU B 266
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MOTA
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MOTA
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ATOM	49	0	.GLU	B 2	267		-26.354	76.009	-7.643	1.00	58.34	8
MOTA	50	N	ALA	B 2	268		-24.114	75.996	-7.285 ·		53.43	7
MOTA	51	CA	ALA	B 2	268		-24.151	75.560	-5.905	1.00	49.00	6
MOTA	52	CB	ALA	B 2	268		-22.816	74.956	-5.526	1,00	45.72	6
ATOM	53	e	ALA	B 2	268		-24.421	76,775	-5.056	1.00	45.76	- 6
ATOM	54	0	ALA	B 2	268		-25.419	76.823	-4.351	1.00	41.50	8
ATOM	55	N	PHE	B 2	69		-23.533	77.766	-5.142	1.00	41.43	7
ATOM	56	CA	PHE	B 2	269		-23.688	78.989	-4.358	1.00	43.96	6
ATOM	57	CB	PHE	B 2	269		-22.903	80.150	-4.971	1.00	40.10	6
ATOM	- 58	CG	PHE	B 2	69	,	-23.057	81.458	-4.224	1.00	40,44	6
ATOM	59	CD1	PHE	B 2	:69		-22.284	81.727	-3.105	1.00	38.98	6
ATOM	60	CD2	PHE	B 2	69		-24.033	82.372	-4.603	1.00	37.15	6
ATOM	61	CE1	PHE	B 2	69		-22.472	82.921	-2.388	1.00	32.12	6
ATOM	62	CE2	PHE	B 2	69		-24.228	83.567	-3.890	1.00	38.41	6
ATOM	63	CZ	PHE	B 2	69		-23.457	83.838	-2.780	1.00	40.55	6
ATOM	64	C.	PHE	B 2	69		-25.154	79.374	-4.320	1.00	49.76	6
ATOM	65	Q	PHE	B 2	69		-25.645	79.905	-3.336	1.00	52.15	8
ATOM	66	N	SER	B 2	70.		-25,840	79.112	-5.426	1.00	53.15	7
ATOM	67	CA	SER	B 2	70		-27.253	79.431	-5.520	1.00	52.29	6
ATOM	68	ĊB	SER	B 2	70		-27.742	79.274	-6.948	1.00	51.85	6
ATOM	69	OG	SER	B 2	70		-29.118	79.606	-7,048	1.00	53.42	8
ATOM	70	С	SER	в 2	70		-28.012	78.486	-4.630	1.00	49.38	6
ATOM	71	Ó	SER	B 2	70	÷	-28.438	78.864	-3.548	1.00	48.74	
ATOM	72	N	HIS.	B 2	71		-28.185	77.253	-5.115	1.00	50.15	7
ATOM	73	CA	HIS	B 2	71		-28.904	76.203	-4.382	1.00	51.67	6
ATOM	74	CB	HIS	B 2	71		-28,409	74.812	-4.782	1.00	58.52	6
ATOM	75	CG	HIS	B 2	71		-29.096	74.248	-5.976	1.00	68.97	
ATOM	76	CD2	HIS	B 2	71	•	-29.987	73.233	-6.102		70.88	6
ATOM	. 77	ND1	HIS				-28.943	74.770	-7.270		71.98	.7
MOTA	78	CE1		B. 2			-29.716	74.080	-8.100		73.91	6
ATOM	79	NE2		B 2			-30.354	73.149	-7.419	1,00	73.59	7
MOTA	80	¢		B 2			-28.785	76.347	-2.886	1.00	48.33	6
ATOM	81	0	HIS				-29.641	75.874	-2.156		48.39	8
ATOM	82	N	PHE				-27.702		-2.444		41.34	7
ATOM	83	CA	PHE				-27.440	77.224	-1.033		39.44	6
ATOM	84	СВ	PHE				-25.936	77.302	-0.801		36.67	. 6
MOTA	85	CG	PHE				-25.241	75.945	-0.861		33.39	6
MOTA	86		PHE				-23.856	75.857	-0.976		33.14	6
ATOM	87		PHE				-25.973	74.767	-0.732		38.28	6
ATOM	88	CE1	PHE				-23.200	74.606	-0.989		38.26	6
ATOM	89	CE2	PHE				-25.321	73.518	-0.743		43.28	6
MOTA	90	CZ	PHE				-23.937	73.441	-0.856		39.74	6
ATOM	91	С	PHE				-28.144	78.472	-0.477		40.75	6
ATOM	92	0	PHE				-28.803	78.393	0.558		35.51	8
MOTA	93	N	THR				-28.027	79.621	-1.144		41.64	7
ATOM	94	CA	THR				-28.658	80.850	-0.652		45.97	6
ATOM	95	CB	THR				-28.023	82.105	-1.283		51.52	٠6
ATOM	96	OG1	THR				-28.292	82.151	-2.688		45.74	8
ATOM	. 97	CG2	THR				-26.511	82.123	-1.048		49.73	6
MOTA	98	C	THR				-30.142	80.859	-0.971		46.23	6
ATOM	99	0	THR				-30.862	81.751	-0.535		41.21	8
ATOM	100	N	LYS	В 2	14		-30.583	79.876	-1.758	1.00	46.21	7

ATOM	101	CA			274		-31.983	79.774	-2.147	1.00 54.53	6
ATOM	102	CB			274		-32.133	78.724	-3.232	1.00 54.36	6
ATOM	103	С	LYS	В	274		-32.819	79.396	-0.931	1.00 56.88	6
ATOM	104	0	LYS	В	274		-34.025	79.624	-0.906	1.00 57,98	8
ATOM	105	N	ILE	В	275		-32.151	78.820	0.076	1.00 56.48	7
ATOM	106	CA	ILE	В	275		-32.791	78.381	1.332	1.00 52.64	· 6
ATOM	107	CB	ILE	В	275		-32.638	76.863	1.519	1.00 49.15	6
ATOM	108	CG2	ILE	В	275		-33.505	76.105	0.529	1.00 47.42	· 6
ATOM	109	CG1	ILE	В	275	•	-31.188	76.441	1.343	1.00 45.31	6
ATOM	110	CD1	ILE	В	275		-30.990	74.952	1.391	1.00 37.22	6
ATOM	111	С	ILE	В	275		-32.241	79.086	2.574	1.00 51.78	6
ATOM	112	0	ILE				-32.858	79.049	3.622	1.00 49.80	8
ATOM	113	N	ILE	В	276		-31.071	79.709	2.435	1.00 51.76	7
ATOM	114	CA	ILE	В			-30.410	80.409	3.533	1.00 52.58	6
ATOM	115	СВ	ILE	В			-29.145	81.110	3.042	1.00 55.04	6
ATOM	116	CG2	ILE	В	276		-29.486	82.172	2.017	1.00 53.28	6
ATOM	117	CG1	ILE	В	276		-28.396	81.786	4.203	1.00 57.31	6
ATOM	118	CD1	ILE	В	276		-27.862	80.854	5.231	1.00 60.32	6
ATOM	119	С	ILE	В	276		-31.282	81.461	4.237	1.00 50.70	6
ATOM	120	0.	ILE		276		-31.015	81.817	5.385	1.00 55.55	8
ATOM	121	N	THR		277		-32.322	81.953	3.568	1.00 47.33	7
ATOM	122	CA	THR		277		-33.174	82.968	4.141	1.00 42.59	6
ATOM	123	СВ			277		-34.042	83.632	3.048	1.00 44.97	6
ATOM	124	OG1			277	·	-33.202	84.145	2.001	1.00 46.38	8
ATOM	125	CG2			277		-34.856	84.781	3.653	1.00 37.17	6
ATOM	126	С			277		-34.069	82.447	5.267	1.00 39.84	6
ATOM	127	0	THR		277		-34.083	83.026	6.375	1.00 40.55	8
ATOM	128	N	PRO		278		-34.832	81.385	5.017	1.00 38.20	7
ATOM	129	CD	PRO		278		-34.925	80.666	3.747	1.00 36.34	6
ATOM	130	CA	PRO	В	278		-35.711	80.834	6,059	1.00 36.63	6
ATOM	131	CB	PRO	В	278		-36.475	79.715	5.357	1.00 32.95	6
ATOM	132	CG	PRO	В	278		~35.833	79.516	4.056	1.00 35.75	б
ATOM	133	С	PRO	В	278		-34.892	80,324	7.220	1.00 38.60	6
ATOM	134	0	PRO	В	278		-35.372	80.157	8.331	1.00 37.67	8
ATOM	135	N	ALA	В	279		-33.636	80,040	6.927	1.00 37.05	7
ATOM	136	CA	ALA	В	279		-32.696	79.525	7.903	1,00 33.18	6
ATOM	137	CB	ALA	В	279		-31.391	79.195	7.205	1.00 30.56	6
ATOM	138	С	ALA	В	279		-32.447	80.536	8.991	1.00 33.47	6
ATOM	139	0	ALA	В	279		-32.623	80.238	10.158	1.00 33.74	8
MOTA	140	N	ILE	В	280		-32.010	81.728	8.577	1.00 29.96	7
ATOM	141	CA	ILE	В	280		-31.728	82.809	9.501	1.00 25.94	6
ATOM	142	CB	ILE	В	280		-31.190	84.040	8.754	1,00 26.95	6
ATOM	143	CG2	ILE	В	280		-30.881	85.149	9.715	1.00 15.40	6
ATOM	144	CG1	ILE	В	280		-29.904	83.696	8.007	1.00 26.73	6
ATOM	145	CD1	IĻĒ	В	280		-29.255	84,878	7.362	1.00 34.31	6
ATOM	146	С	ILE	В	280		-32.964	83.172	10.310	1.00 31.39	6
ATOM	147	0	ILE	В	280		-32.882	83.378	11.522	1.00 35:69	8
ATOM	148	N	THR	В	281		-34.113	83.233	9.647	1.00 30.90	7
ATOM	149	CA	THR				-35.361	83.586	10.328	1.00 33.49	6
ATOM	150	СВ	THR				-36.598	83.396	9.419	1.00 37.18	6
ATOM	151	OG1	THR				-36.703	82.034	9.005	1.00 46.48	8
ATOM	152	CG2	THR				-36.525	84.289	8.198	1.00 32.85	6
ATOM	153	С	THR				-35.523	82.706	11.556	1.00 29.94	б
ATOM	154	0	THR				-35.855	83.186	12.634	1.00 25.55	8
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MOŢA	155	N	ARG		282	-35.296	81.405	11.378		32.70	7
ATOM	156	CA	ARG		282	-35.439	80.449	12.475		34.27	6
ATOM	157	CB	ARG		282	-34.999	79.060	12.020		33.78	б
ATOM	158	CG	ARG		282	-35.986	77.944	12.280		45.15	6
ATOM	159	CD	ARG	В	282	-36.701	77.514	11.015		58.24	6
MOTA	160	NE	ARG	В	282	-35.771	77.153	9.969		68.41	7
MOTA	161	CZ	ARĢ	В	282	-34.862	76.200	10.098		72.31	6
ATOM	162	NH1	ARG	В	282	÷34.779	75.502	11.232		77.89	7
ATOM	163	NH2	ARG	В	282	-34.022	75.963	9.096	1.00	69,25	7
ATOM	164	С	ARG	В	282	-34.556	80.919	13,622	1.00	34.81	6
MOTA	165	0	ARG	В	282	-35.008	81,034	14.753	1.00	36.03	8
ATOM	166	N	VAL	В	283	-33.288	81.183	13.289	1.00	31.71	7
MOTA	167	CA	VAL	В	283	-32.304	81.667	14.249	1.00	30.16	6
MOTA	168	CB	VAL	В	283	-30.993	82.029	13.559	1.00	29.00	б
MOTA	169	CG1	VAL	В	283	-30.015	82.617	14.557	1.00	28.64	6
ATOM	170	CG2	VAL		283	-30.385	80.816	12.915	1.00	28.28	6
ATOM	171	С	VAL		283	-32.848	82.884	14.994	1.00	32.50	б
ATOM	172	o i	VAL		283	-32.619	83.057	16.185	1.00	33.48	8
ATOM.	173	Ň	VAL		284	-33.573	83.728	14.265	1.00	30.96	7
ATOM	174	CA	VAL		284	-34.177	84.925	14.844	1.00	29.14	6
ATOM	175	СВ	VAL		284	-34.672	85.892	13.751		31.27	6
ATOM	176	CG1	VAL		284	-35.278	87.129	14.371	1.00	24.21	6
ATOM	177	CG2	VAL		284	-33.554	86.270	12.812	1.00	30.51	6
ATOM	178	С	VAL		284	-35.336 ·	84.498	15.747	1.00	28.89	6
ATOM	179	0	VAL		284	-35.491	84.994	16.860	1.00	27.29	8
ATOM	180	N	ASP		285	-36.143	83.564	15.250	1.00	28.76	7
ATOM	181	ÇA	ASP		285	-37.299	83.057	15.983	1.00	35.32	6
ATOM	182	CB	ASP	В	285	-38.129	82.098	15.111	1.00	33.29	6
ATOM	183	CG	ASP	В	285	-38.881	82.795	14.013	1.00	38.15	6
ATOM	184	OD1	ASP	В	285	-39.660	83.729	14.305	1.00	34.70	8
ATOM	185	OD2	ASP	В	285	-38.741	82.406	12.821	1.00	34.43	8
ATOM	186	C	ASP	В	285	-36.863	82.339	17.257	1.00	36.70	б
ATOM	187	0	ASP	В	285	-37.606	82.304	18.237	1.00	37.96	8
ATOM	188	N	PHE	В	286	-35.663	81.755	17.235	1.00	35.96	7
ATOM	189	CA	PHE	В	286	-35.134	81.053	18,401	1.00	37.10	6
ATOM	190	CB	PHE	В	286	-33.870	80.262	18.052	1.00	37.97	б
ATOM	191	CĢ	PHE	В	286	-33.079	79.818	19.258	1.00	36.50	6
MOTA	192	CD1	PHE	В	286	-33.704	79.168	20.294	1.00	36.75	. 6
ATOM	193	CD2	PHE	В	286	-31.721	80.063	19.343	1.00	33.83	6
ATOM	194	CE1	PHE	В	286	-32.987	78.769	21.401	1.00	39.55	б
ATOM	195	CE2	PHE	В	286	-30.997	79.662	20.456	1,00	38.08	6
ATOM	196	CZ	PHE	В	286	-31.632	79.013	21.486	1.00	34.44	6
ATOM	197	С	PHE	В	286	-34.808	82.023	19.504	1.00	36.83	6
ATOM	198	0	PHE	В	286	-35.246	81.845	20.631	1.00	35.61	. 8
ATOM	199	N			287	-34.005	83.027	19.169	1.00	37.33	7
ATOM	200	CA	ALA	В	287	-33.599	84.035	20.132	1.00	36.34	6
MOTA	201	CB			287	-32.644	85.008	19.469	1.00	36.40	6
ATOM	202	С			287	-34.831	84.769	20.657	1.00	38.76	6
ATOM	203	0	ALA			-34,882	85.193	21.814	1,00	41.98	8
ATOM	204	N	LYS		288 .	-35.820	84.912	19.779	1.00	38.28	7
ATOM	205	CA			288	-37.066	85.584	20.112	1.00	45.26	6
ATOM	206	СВ			288	-37.983	85.690	18.898	1.00	48.35	6
ATOM	207	CG			288	-37.577	86.756	17.916		51.43	6
	208	CD			288	-38.806	87.359	17.226		60.23	6
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MOTA	209	CE	LYS				-39.			308		5.56		1.00			6
ATOM	210	NZ	LYS	В	288		-38.	897		460		5.61		1.00			7
ATOM	211	C	LYS	В	288		-37.	846	84.	901	2:	1.19	1	1.00	43	. 31	6
atom	212	0	LYS	₿	288		-38.	650	85.	532	2:	L.85	7	1.00	45	. 66	8
ATOM	213	N	LYS	В	289.		-37.	618	83.	604	23	1.34	5	1.00	41	.70	7
ATOM	214	CA	LYS	B	289		-38.	313	82.	849	22	2.35	1	1.00	40	, 67	б
ATOM	215	CB	LYS	В	289		-38.	554	81.	418	2:	1.84	5	1.00	42	. 25	6
ATOM	216	CG	LYS	B	289		-39.	438	81.	368	26	0.58	9	1.00	39	. 53	6
ATOM	217	CD	LYS	B	289		-40.	093	80.	010	20).42	2	1.00	43	.19	б
ATOM	218	CE	LYS	₿	289		-41.	025	79.	987	15	9,22	3	1.00	45	.74	6
ATOM	219	NZ	LYS	В	289		-42.	391	80.	476	19	9.51	2	1.00	52	. 49	7
ATOM	220	,с	LYS	В	289		-37.	555	82.	871	2:	3.66	8	1.00	41	. 50	6
ATOM	221	Ö	Ļ¥S	В	289		-38.	057	82.	366	24	1.65	7	1,00	39	.77	8
ATOM	222	N	LEU				-36.			482		3,66		1.00	40	. 68	7
ATOM	223	CA	LEU				~35.	539	83.	599	24	1.85	4	1.00	39	. 33	6
ATOM	224	CB	LEU				-34.			499		1.49		1.00			б
ATOM	225	CG	LEU				-33,			240		3.76		1.00	34	.81	6
ATOM	226	CD1					-32.			255		3.52	3	1.00			· 6
ATOM	227		LEU				-34.			040		1.60		1.00			6
ATOM	228	C	LEU				-35.			915		3.57		1.00			6
MOTA	229	0	LEU	В	290		-35.	479		006		5.08	8	1,00	42	.00	8
ATOM	230	N	PRO				-36.	462		840	26	5.76	5	1.00			7
ATOM	231	CD	PRO				-36.	819		613		7.49		1.00		. 65	6
ATOM	232		PRO				-36.			069		7.50		1.00			6
ATOM	233	CB	PRO				-37.	376		574		3,81	1 .	1.00	35	.88	6
ATOM	234	CG	PRO				-37.	549	84.	110	28	3.69	5	1,00	34	.19	. 6
ATOM	235	С	PRO	В	291		-35.	570	87.	002	2.	7.71	4	1,00	40	.05	6
ATOM	236	0	PRO	В	291		-35.	625	88.	197	2	7.40	3	1.00	41	. 33	8
ATOM	237	N	MET	В	292		-34.	474	86.	476	28	3.25	8	1.00	40	. 59	7
ATOM	238	CA	MET	B	292		-33.	296	87.	286	28	3.54	5	1.00	42	.86	6
ATOM	239	CB	MET	В	292		-32.	149	86.	376	2,8	3.97	5	1.00	43	.28	б
ATOM	240	CG	MET	В	292		-32.	553	85.	302	29	9.97	0	1.00	50	. 35	6
ATOM	24,1	SD	MET	В.	2 92		-31.	070	84.	609	30	75	5	1.00	51	.17	16
ATOM	242	CE	MET	В.	292		-31.	797	83.	212		1.70		1.00	54	. 63	6
ATOM	243	C	MET	В	292		-32.	895	88.	077	2	7.31	5	1.00	41	.05	6
ATOM	244	0	MET	В	292	•	-32.	228	89.	098	2°	7.42	Q	1.00	39	. 66	8
ATOM	245	N	PHE	В	293		-33.	322	87.	604	2€	5.14	3	1.00	39	. 30	7
MOTA	246	CA	PHE	В	293		-33.	017	88.	271	24	1.87	8	1.00	40	. 92	6
ATOM	247	CB	PHE	В	293		-33.	296	87.	329	23	3.70	7	1.00	40	, 98	6
ATOM	248	CG	PHE	B	293		-32,	937	87.	909	22	2,36	5	1.00	42	,78	б
ATOM	249	CD1	PHE	В	293		-31.	653	88.	354	22	2.12	0	1.00	44	. 40	6
ATOM	250	CD2	PHE	В	293		-33.	872	87,	972	23	1,35	0	1.00	43	. 66	6
ATOM	251	CEl	PHE	B :	293		-31.	306	88,	869	2(.87	2	1.00	39	.83	6
ATOM	252	CE2	PHE	В	293		-33.	525	88.	486	26	0.10	O	1.00	46	. 21	6
ATOM	253	CZ	PHE	В :	293		-32.	239	88.	926	19	85	9	1.00	45	, 18	6
MOTA	254	C	PHE	В	293		-33.	873	89.	518	24	1.74	4	1.00	45	. 54	6
ATOM	255	0	PHE	В	293		-33.	369	90.	626	24	1.57	9	1.00	42	.01	8
ATOM	256	N	CYS	В	294		~35 .	181	89.	305	24	1.80	8	1.00	47	.05	7
ATOM	257	CA	CYS	B :	294		-36.	146	90.	382	24	1.68	9	1.00	50	.15	6
ATOM	258	CB	CYS	В	294		-37.	553	89.	793	24	1.75	6	1.00	45	. 90	6
ATOM	259	SG	CYS	в :	294		-37.	899	88.	607	23	3.44	9	1.00	51	. 50	16
ATOM	260	c,	CYS	в:	294		-35.	974	91.	474	25	.75	1	1.00	51	. 38	6
ATOM	261	0	CYS				-36.	585	92.	536	25	6.65	6 ·	1.00	53	.83	8
ATOM	262	N	GLU	в :	295		-35.	137	91.	200	26	5,75	3	1.00	49	.72	7

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ATOM	263	CA	GLU	В	295	-34.839	92.159	27.816	1.00	52.53	6
ATOM	264	CB	GLU	B	295	-34.553		29.131		57.40	6
MOTA	265	CG	GLU	В	295	-35.811	90.978	29.874		69.63	6
ATOM	266	CD	GLU	B	295	-36.610	92.144	30.375		78.49	6
MOTA	267	OE 1	GLU	В	295	-36.153	92.869	31.297	1.00	82.82	8
MOTA	268	OE2	GLU	В	295	-37.730	92.385	29.860	1.00	85.30	8
ATOM	269	С	GLU	В	295	-33.629	93.009	27.415	1.00	48.54	б
ATOM	270	0	GLU	B	295	-32.981	93.627	28.260	1.00	49.82	8
ATOM	271	N	LEU	В	296	-33.374	93.030	26.109	1.00	43.79	7
ATOM	272	CA	LEU	В	296	-32.268	93.761	25.540	1.00	45.42	6
MOTA	273	CB	LEU	В	296	-31.319	92.769	24.838	1.00	41.04	6
ATOM	274	CG	LEU	В	296	-30.735	91.631	25.662	1.00	42.74	6
ATOM	275	CD1	LEU	В	296	-30.354	90.478	24,764	1.00	40.99	6
MOTA	276	CD2	LEU	B	296	-29.559	92.119	26.468	1.00	39.44	6
ATOM	277	C	LEU	B	296	-32.760	94.779	24.522	1,00	45.56	6
ATOM	278	0	LEU	₿	296	-33.845	94.600	23.924	1.00	43.07	8
ATOM	279	N	PRO	В	297	-32.004	95.875	24.338	1.00	46.99	• 7
ATOM	280	CD			297	-30.740	96.123	25.046	1.00	47.12	6
ATOM	281	CA	PRO	В	297	-32.388	96.912	23.363	1.00	49.61	6
ATOM	282	СВ	PRO	В	297	-31.294	97.973	23.494	1.00	49.91	6
ATOM	283	CG	PRO	В	297	-30.302	97.477	24.545	1.00	51.28	6
ATOM	284	C	PRO	В	297	-32.263	96.273	21.913	1.00	49.59	6
ATOM	285	o .	PRO	В	297	-31.441	95.340	21.685		51.66	8
ATOM	286	N	CYS	В	298	-33.035	96.667	20.854	1.00	51.02	. 7
ATOM	287	CA	CYS	В	298	-32.761	96.150	19.456	1.00	52.86	б
ATOM	288	СВ	CYS	В	298	-33.140	97.165	18.356	1,00	54.57	6
ATOM	289	SG	CYS	В	298	-34.884	97.085	17.836		67.87	16
MOTA	290	C	CYS	В	298	-31.385	96.330	19.127		48.51	6
ATOM	291	0	CYS	В	298	-30.579	•	18.744		49.58	8
ATOM	292	N	GLU	В	299	-31.107		19.230		44.17	7
MOTA	293	CA			299	-29.989		18.718		47.57	6
MOTA	294	CB			299	-29.402		19,208		49.92	6
ATOM	295	CG			299	-29.944		18.433		59.30	6
ATOM	296	CD			299	•	100.887	19.164	1.00		6
ATOM	297	OE 1					101.904	18.629	1.00		8
ATOM	298	OE2	GLU				100.458	20.319		67.10	8
ATOM	299	C	GLU				96.533	18.987		46.57	б
MOTA	300	0			299	-28.200		18.111		44,.65	8
ATOM	301	N	ASP			-29.045		20.203		45.17	7
ATOM	302	CA	ASP			-28.152		20.584		43.32	6
ATOM	303	CB	ASP			-27.985		22.105		37.38	6
ATOM	304	CG			300	-27.239		22.650		36.23	б
ATOM	305		ASP			-26.208		22.052		35.87	8
ATOM	306	OD2	ASP		300	-27.661		23.716		40.14	8
ATOM	307	С	ASP		300			20.071		42.81	6
ATOM	308	.O	ASP			-28.001		19.489		46.02	8
MOTA	309	N			301	-30.019		20.306		38.60	7
ATOM	310	CA	GLN			-30.712		19.858		40.00	6
MOTA	311	CB	GLŊ			-32.234		19.836		38.59	6
MOTA	312	CG			301	-32.908		21.187		40.26	6
MOTA	313	CD	GLN			-34.401	92.583	21.083		44.15	6
MOTA	314	OE1	GLN			-34.859		20.589		45.73	8
ATOM	315	NE2	GLN			-35.165		21.544		46.13	7
MOTA	316	С	GLN	В	301	-30.237	91.830	18.455	1.00	41.64	6

ATOM	317	Ö			301			.162		.662		8.100			45.02	8
Mota	318	Ŋ			302			.916		.864		17.674			41.01	7
MOTA	319	CA	ILE	В	302		-29	.424	92	.692	1	16.311			40.23	6
MOTA	320	CB	ILE	В	302		-29	.584	93	.978		15.498		0	39.52	6
ATOM	321	CG2	ILE	В	302		-29	.034	93	.792]	14.100	1.0	0	31,98	6
.ATOM	322	CG1	ILE	В	302		-31	.059	94	.385	1	15,416	1.0	0	40.77	б
ATOM	323	CD1	ILE	В	302		-31	. 939	93	3.317	1	14.775	1.0	0	45.43	6
ATOM	324	С	ILE	В	302		-27	.966	92	.260	1	16.342	1.0	0	38.58	6
ATOM	325	0	ILE	В	302		-27	.613	91	.197	1	15.830	1.0	0	40.81	8
ATOM	326	N	ILE	В	303		-27	.128	93	.111	1	16.933	1.0	0	37.50	7
ATOM	327	CA	ILE	В	303		-25	.692	92	.846	1	17.062	1.0	0	39.33	б
ATOM	328	CB	ILE	В	303		-25	.066	93	.648	1	18.203	1.0	0	39.06	6
ATOM	329	CG2	ILE	В	303		-23	.566	93	.405]	18.257	1.0	O	36.19	6
ATOM	330	CG1	ILE	В	303		-25	.309	95	.143	1	18,020	1.0	0	40.15	6
ATOM	331	CD1	ILE	В	303		-24	.816	95	.966	1	9.173	1.0	0	36.93	6
ATOM	332	С	ILE	В	303		-25	.470	91	.365	1	7.323	1.0	0	36.49	6
ATOM	3 3 3	0	ILE	В	303		-24	.619	90	.725	1	6.712	1.0	0	36.58	8
ATOM	334	N	LEU	В	304		-26	.244	90	.843	1	8.266	1.0	0	32.91	7
ATOM	335	CA	LEU	В	304		-26	.194	89	.433	1	8.633	1.0	0	27.55	6
ATOM	336	CB	LEU	В	304		-27	.172	89	.182	1	9,793	1.0	0	22.35	6
ATOM	337	CG	LEU	В	304		-26	.623	89	.449	2	21.187	1.0	0	26.88	б
ATOM	338	CD1	LEU	В	304		-25	.540	90	.495	2	21.136	1.0	0	24.82	6
ATOM	339	CD2	LEU	В	304		-27	.747	89	.840	2	22.121	1.0	0	23.69	6
ATOM	340	С	LEU	В	304		-26	.505	88	.547]	7.425	1.0	0	28.05	6
ATOM	341	0	LEU	В	304		-25	.668	87	.751	1	6.983	1.0	0	24.68	8
ATOM	342	N	LEU	В	305		-27	.716	88	.700	1	6.897	1.0	0	26.34	7
ATOM	343	CA	LEU	В	305	•	-28	.145	87	,939	3	5.741	1.0	0	30.91	6
ATOM	344	CB	LEU	В	305		-29	.460	88	.514	1	5.199	1.0	0	32.50	6
ATOM	345	CG	LEU	В	305		-30	.699	88	.305	1	6.050	1.0	0	33,36	6
MOTA	346	CD1	LEU	В	305.		-31	.938		.839]	5.342	1.0	0	33.87	6
MOTA	347	CD2	LEU	В	305		-30	.863	86	.812	1	6.298	1.0	Q	31.72	6
ATOM	348	С	LEU					.072		.922	1	4.666			29.76	6
ATOM	349	0	LEU		305	•	-26	.687	86	.860		4.202			29.33	8
ATOM	350	N	LYS		306		-26	.597		.107		4.291			29.72	7
ATOM	351	CA	LYS					.576		.254		3.264			34.28	6
ATOM	352	CB	LYS					.224		.732		3.077			35.98	6
ATOM	353	CG	LYS					.350		.581		2.494			43.35	6
ATOM	354	CD	LYS					.852		.987		2.182			51.50	, 6
ATOM	355	CE	LYS							. 932		1.190			53.26	6
ATOM	356	ΝZ	LYS					.883		.161		1.251			59.61	7
MOTA	357	С	LYS					.308		.484		.3.556			35.25	6
MOTA	358	0	LYS					.681		.917		.2.653			33.95	8
ATOM	359	N	GLY	В	307			.918		.478		4.829			35.79	7
ATOM	360	СA	ĢLY			•	-22	.702	87	.793	1	5.227	1.0	0	34.59	6
MOTA	361	С	GLY	В	307		-22	.811	86	.291	1	.5.383			33.80	6
MOTA	362	0	GLY	В	307	-	-21	.944	85	.564	1	4.895	1.0	0	31.59	8
ATOM	363	N	CYS					.861		.843		6.071			31.15	7
ATOM	364	CA	CYS					.069		.434		6.320			29.04	6
ATOM	365	CB	CYS	В	308		-24	.761		,240		7.663			27.59	6
ATOM	366	SG	CYS	В	308			.496		,629		7.608			30.50	16
MOTA	367	С	CYS			-	-24.	.911	83	.712		5.266			30.59	6
ATOM	368	0	CYS					. 088		.499		5.365			33.77	8
ATOM	369	N	CYS					. 432		.429		4.266			28.46	7
ATOM	370	CA	CYS	В	309	•	-26.	.270	83	.787	1	3.265	1.0	0	30.10	6

ATOM	371	СВ	CYS	В	309		-26.	706	84.761	12.194	1.00	33.43	6
ATOM	372	SG	CYS	B	309		-27.	875	84,011	11.089	1.00	35,20	16
ATOM	373	C	ÇYS	В	309		-25.	617	82,609	12.603	1.00	27.72	6
ATOM	374	O	CYS	В	309		-26.	170	81.518	12.610	1.00	27.69	8
ATOM	375	N	MET	В	310		-24.	447	82.829	12.011	1.00	26.15	7
ATOM	376	CA	MET	В	310		-23,	737	81.748	11,352	1,00	26.06	6
ATOM	377	CB	MET	В	310		-22.	439	82.263	10.712	1.00	25.32	6
ATOM	378	CG	MET	B	310		-21.	584	81.157	10.080	1.00	24.08	6 ·
ATOM	379	SD	MET	В	310		-22.	555	80.324	8.759	1.00	27.71	16
ATOM	380	CE	MET	В	310		-21.	549	78.826	8,427	1,00	28,50	б
ATOM	381	C	MET	В	310		-23.	416	80.673	12.374	1.00	25.94	6
ATOM	382	0	MET				-23.		79.489	12.151	1.00	28.09	8
MOTA	383	N			311		-22.		81.117	13,500	1.00	25.39	7
ATOM	384	CA	GLU				-22.	466	80.231	14.576	1,00	27.03	6
ATOM	385	CB	GLU			•	-22.	036	81.048.	15.797	1,00	24.39	6
ATOM	386	CG	GLU				-21.		82.141	15.509		26.00	6
ATOM	387	CD			311		-20.	524	82.835	16.740	1.00	23.95	. 6
ATOM	388		GLU			•	-21.	321	83.108	17.668	1.00	19.72	8
ATOM	389	OE2	GLU	В	311		-19.	313	83.163	16.815	1.00	26.51	8
ATOM	390	С	GLU				-23.	582	79.264	14.964	1.00	27.51	6
ATOM	391	0	GLU	В	311		-23.	347	78.068	15.093	1.00	29.67	8
ATOM	392	N	ILE	В	312		-24.	794	79.792	15.145	1.00	26.82	7
ATOM	393	CA			312		-25.	933	78.967	15.527	1.00	25.71	6
ATOM	394	СВ	ILE	В	312		-27.	125	79.814	16.021	1.00	23.35	6
ATOM	395	CG2	ILE	В	312		-28.	327	78,933	16.276	1.00	20.27	6
MOTA	396	CG1	ILE	В	312		-26.	771	80.541	17.325	1.00	20.88	б
MOTA	397	CD1	ILE	В	312		-27.	952	81.163	18.028	1.00	18.15	6
ATOM	398	С	ILE	В	312		-26.	370	78.072	14.392	1.00	27.91	6
ATOM	399	0	ILE	В	312		-26.	769	76.926	14.605	1.00	28,96	8
MOTA	400	N	MET	В	313		-26.	303	78.603	13.174		27.66	7
ATOM	401	CA	MET				-26.	696	77.832	11,999		30.18	· 6
MOTA	402	ÇB	MET				-26.		78.691	10,734		36.89	6
ATOM	403	CG	MET				-27.		79.634	10.607		37.95	6
ATOM	404	SD	MET				-28.		80.275	8.907		42.38	16
MOTA	405	CE	MET				-26.		81.316	8.639		40.68	6
ATOM	406	С	MET				-25.		76.632	11,808		27.43	6
MOTA	407	0	MET				-26.		75.501	11.893		28.61	8
MOTA	408	N	SER				-24.		76.882	11.549		24.88	7
MOTA	409	CA	SER				-23.		75.824	11.346		27.98	6
MOTA	410	CB	SER				-22.		76.441	11.165		29.64	6
ATOM	411	OG	SER				-21.		77.316	12.227		43.44	8
ATOM	412	C	SER				-23.		74.774	12.465		22.30	6
ATOM	413	0	SER				-23.		73.592	12.199		24,18	8
MOTA	414	N	LEU				-23.		75.187	13.714		23.99	7
ATOM	415	CA	LEU				-23.		74,219	14.811		25.07	6
ATOM	416	CB	LEU				-24.		74.869	16.169		19.11	6
MOTA	417	CG	LEU				-24.		73.860	17.234		20.39	6
MOTA	418	CD1	LEU				-23.		72.878	17.493		18.92	6
MOTA	419		LEU				-24.		74.560	18.514		12.93	6
ATOM	420	С	LEU				-24.		73.219	14.517		24.53	6
ATOM	421	0	LEU				-24.		72.014	14.550		26.32	8
ATOM	422	N	ARG				-26.		73.762	14.254		28.18	7
MOTA	423	CA	ARG				-27.		72.996	13.971		27.54	6
ATOM	424	СВ	ARG	В	316		-28.	432	73.941	13.651	1.00	27.39	6

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74.857
                                                       14.809
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MOTA
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              CE2 TYR B 321
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MOTA
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ATOM
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ATOM
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                   TYR B 321
MOTA
                                              62.857
                                                       11.292
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                                                                1,00 40.00
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ATOM
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                                                        7.117
                                                                1.00 40.00
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              OD2 ASP B 322
ATOM .
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MOTA	480	0	ASP	В	322		-22	.738	60	783		7.495	1.06	45.3	8 8
ATOM	481	N	PRO	В	323		-22	.242	60	0.005		9.549	1.00	46.5	3 7
ATOM	482	CD	PRO	В	323		-22	.594	59	9.676	1	.0.934	1.00	47.1	6 6
MOTA	483	ÇA	PRO	В	323		-20	.910	59	9.487		9.162	1.00	46.6	
ATOM	484	CB	PRO	В	323		-20	.367	58	3.847	1	0.433	1.00	43.9	
ATOM	485	CG	PRO	В	323		-21	.398	58	3.958	1	1.454	1.00	43.9	
ATOM	486	С	PRO	В	323		-20	.933	58	3.489		8,017	1.00	48.3	
ATOM	487	0	PRO	В	323		-20	.040	58	3.457		7.171	1.00	50.8	
MOTA	488	N	GLU	В	324			.951	57	7.631		8.022	1.06	52.3	
ATOM	489	CA	GLU	В	324			.126		5.615		7.008		55.8	
MOTA	490	CB	GLU	В	324			.491		960		7.216		55.5	
ATOM	491	ÇG	GLU	В	324			678	55	5.332		8,581	1.00	40.0	
ATOM	492	CD	GĻU	В	324		-22	.642		.294		8.888		40,0	
ATOM	493	OE1	GLU	В	324	-	-21	.796	53	3.979		8.000	1.00		
MOTA	494	OE2	GLU	В	324		-22	.645	53	3.751	1	0.029	1.00	40.0	
ATOM	495	С	GLU	В	324	-	-22	.087	57	.292		5.655		54.9	
ATOM	496	0	GLU	В	324	-	-21	.144	57	.149		4.896		59.8	
ATOM	497	N	SER	В	325	-	-23	.165	58	.022		5.389	1,00	52.9	
ATOM	498	CA	SER	В	325	-	-23	.358	58	.762		4.163	1.00	50.1	
MOTA	499	CB	SER	В	325	-	-24	.768	59	3.357		4.163	1.00	48.2	
MOTA	500	OG	SER	В	325	: -	-25	.051	59	.976		5.403	1.00	48.7	
MOTA	501	С	SER	В	325	-	-22	.324	59	.861		3.964	1.00	50.6	1 6
MOTA	502	0	SER	·B	325	• -	-21	. 956	60	176		2.848	1.00	52.1	9 8
MOTA	503	N	GLU	В	326	-	-21.	.851	60	.422	•	5.070	. 1.00	45.6	4 7
MOTA	504	CA	GLU	В	326			.854	61	.476		5.050	1.00	43.3	5 6
ATOM	505	CB	GLU	В	326	-	-19	602	61	.022		4.277	1.00	42.7	4 6
ATOM	506	CG	GLU	В	326		-18.	.880	59	.814		4.876	1,00	50.3	
ATOM	507	CD	GLU	В	326			. 576		.524		4.207	1.00	56.3	
ATOM	508	. OE1	GLU		326			.898		.545		4.608		59.3	
ATOM	509	OE2	GLU		•			.177		.255		3.266	1,00		
MOTA	510	C	GLU		326			.401		.731		4.418	1.00		**
MOTA	511	0	GLU		326			.793		.285		3.514	1,00		
ATOM	512	N	THR		327			.528		.208		4.934	1.00		
ATOM	513	CA	THR				_	163		.418		4.401		37.2	
ATOM	514	СВ	THR					146		.052		3.285		37.6	
ATOM	515		THR							.199		3.803		38.1	
ATOM	516		THR							.342		2.130		39.9	
ATOM	517	C	THR					961		.125		5.473		39.4	
ATOM	518	0	THR							.473		6.264		40.50	
ATOM	519	N	LEU							.454		5.473		36.6	
ATOM	520	CA	LEU							.239		6.447		37.7	
ATOM	521	СВ	LEU					061		. 637		6.620		37.78	
MOTA	522	CG	LEU					586		.750		6.931		36.2	
ATOM	523		LEU					260		.145		7.411		36.50	
ATOM	524		LEU					231		.751		8.000		39.85	
ATOM	525	С	LEU					090				5.897		37.2	
ATOM	526	0	LEU					358		.855		4.805		34.9	
ATOM	527	N	THR					989		.975		6.647		39.73	
MOTA	528	CA	THR					369		.132		6.215		40.81	
ATOM	529	CB	THR					279		.135		6,918		42.67	
ATOM	530 531	OG1	THR					799		.809		6.686		42.5	
ATOM	531 532	CG2	THR							.255		6.375		43.52	
ATOM	532	С	THR	¤	329		٠٧٥.	853	69	. 529		6.498	1.00	44.31	1 6

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ATOM	533	0	THR	В	329		-29.432	69.801	7,535	1.00	43.72	8 -
ATOM	534	N	LEU	В	330		-28.589	70.413	5.546	1.00	44.62	7
ATOM	535	CA	LEU	В	330		-28.983	71.812	5.658	1.00	45.09	б
ATOM	536	CB	LEU	В	330		-28.354	72.608	4.510	1.00	44.66	6
ATOM	537	CG	LEU	₿	330		-26.847	72.735	4,539	1.00	51.06	6
ATOM	538	CD1	LEU	В	330		-26.226	71.367	4.640	1.00	48.58	б
ATOM	539	CDZ	LEU	B	330		-26.364	73.450	3.299	1.00	45.18	- 6
ATOM	540	С	LEU	В	330		-30.508	71.965	5,652	1.00	48.06	6
ATOM	541	0	LEU	В	330		-31.211	71.244	4,959	1,00	49.33	8
ATOM	542	N	ASN	В	331		-30.988	72.911	6.458	1.00	52.20	7
ATOM	543	CA	ASN	В	331		-32.407	73.214	6.588	1.00	54.41	6
ATOM	544	CB	ASN	B	331		-32.870	74.013	5.370	1.00	54.94	6
ATOM	545	CG	ASN	В	331		-33.687	75.220	5.749	1,00	60.35	6
ATOM	546	OD1	ASN	В	331		-33.182	76.130	6.430	1.00	61.84	8
ATOM	547	NDS	ASN	В	331		-34.935	75.242	5.324	1.00	65.92	7
ATOM	548	e	ASN		331		-33.251	71.959	6,731	1.00		6
ATOM	549	O	ASN	В	331	•	-34.464	72.000	6.579		60.17	8
ATOM	550	N	GLY	В	332		-32.596	70.846			58.45	7
ATOM	551	CA	GLY	В	332		-33.295	69.587	7.235	1.00	58.55	6
MOTA	552	С	GLY	В	332		-33,909	69.004	5.984	1.00	59.79	6 ·
ATOM	553	0	GLY	В	332		-34.609	68.000	6.065	1.00	61.32	8
MOTA	554	N	GLU	В	333		-33.639	69.628	4.838	1,00	60.28	7
MOTA	555	CA	GLU	В	333		-34.196	69.182	3,571	1,00	59.13	6
ATOM	556	ÇВ	GLU	В	333		-34.966	70.323	2.885	1.00	62.40	6
ATOM	557	CG	GLU	В	333		-36.099	70.963	3.690	1.00	75.69	6
ATOM	558	CD	GLU	В	333		-36.720	72.135	2.998	1.00	80.41	6
ATOM	559	OE1	GLU	В	333		-35.984	73.081	2.618	1.00	79.98	. 8
ATOM	560	OE2	GLU	В	333		-37.966	72.158	2.830	1.00	83.81	8
ATOM	561	С	GLU	В	333		-33.110	68.722	2.624	1.00	57.18	. 6
ATOM	562	0	GLU	В	333		-33.236	67.689	1.974	1.00	57.50	8
ATOM	563	N	MET	В	334		-32.054	69.528	2.539	1,00	55.20	7
ATOM	564	CA	MET	В	334		-30.926	69.259	1.653	1,00	50.85	6
MOTA	565	CB	MET	В	334		-30.514	70.563	0.984	1.00	48.70	6
ATOM	566	CG	MET	В	334		-29.244	70.460	0.194	1.00	45.39	6
ATOM	567	SD			334		-28.743	72.008	-0.624	1.00	44.56	16
MOTA	568	CE	MET				-30.307	72.445			45.25	6
MOTA	569	C			334		-29,711	68.634	2.319		51.59	6
ATOM	570	O	MET				-29.185	69.161	3,291	-	52.52	. 8
MOTA	571	N	ALA				-29.270	67.515	1.758		51.00	7
ATOM	572	ÇA	ALA				-28.106	66.802	2.267	**	48.98	6
MOTA	573	CB	ALA				-28.377	65,304	2.274		47.86	6
ATOM	574	C	ALA				-26.931	67.108	1.371		51.01	6
MOTA	575	0	ALA				-26.936	66.760	0.190		51.61	8
ATOM	576 °	N	VAL	В	336		-25.921	67.770	1.930	1.00	46.62	7
ATOM	577	CA	VAL	В	336		-24.730	68.142	1.152	1.00	42.35	6
ATOM	578	CB	VAL	В	336		-24.4 6 6	69.635	1.258		42.41	6
ATOM	579	CG1					-25.695	70.418	0.860		42.00	6
ATOM	580		VAL				-24.018	70.004	2.642		40.32	6
ATOM	581	С	VAL	В	336		-23.493	67.390	1.611		45.33	6
MOTA	582	0	VAL	В	336		-23.464	66.775	2.681		47.42	8
ATOM	583	N	THR				-22.461	67.478	0.781		41.60	7
MOTA	584	CA	THR				-21.172	66.818	1.041		39.69	6
ATOM	585	CB	THR	В	337		-20.720	66.011	-0.173		41.35	6
MOTA	586	OG1	THR	В	337		-20.273	66.887	-1.213	1.00	49.35	8

MOTA	587	CG2	THR	В	337	;	-21.869	65.175	-0.702		40.38	6 .
ATOM	588	С	THR	В	337		-20.087	67.846	1.318		37.88	6
ATOM	589	0	THR	₿	337		-20.141	68.975	0.832		34.06	8
ATOM	590	N	ARG	В	338		-19.097	67.417	2.095		37.61	7
MOTA	591	CA	ARG	В	338		-17.942	68.241	2.442	1.00	38.68	6
ATOM	592	CB	ARG	B	338		-16.770	67.333	2.823	1.00	35.95	6
ATOM	593	ÇG	ARG	В	338		-15.455	68.042	3.064	1.00	38.83	б
ATOM	594	ÇD	ARG	В	338		-14.348	67.029	3.319	1.00	35.88	6
ATOM	595	NE	ARG	В	338		-14.520	66.239	4.530	1.00	37.42	7
ATOM	596	CZ	ARG	В	338		-14.274	66.669	5.766	1.00	30.20	6
ATOM	597	NH1	ARG		338		-13.794	67.892	5.973	1.00	27.98	7
ATOM	598	NH2	ARG	В	338		-14.481	65.847	6.788	1.00	27.40	7
ATOM	599	С	ARG	В	338		-17.581	69.075	1.229	1.00	38.09	6
ATOM	600	O	ARG	В	338		-17.537	70.299	1.284	1.00	34.12	8.
ATOM	601	N	GLY	В	339		-17.345	68.383	0.117	1.00	41,25	7
ATOM	602	CA	GLY	В	339		-16.981	69.054	-1.119	1.00	41.35	6
ATOM	603	c			339		-18.004	70.109	-1.460	1.00	41.23	- 6
ATOM	604	0			339		-17.736	71.291	-1.330	1.00	38.30	8
ATOM	605	N	GLN		340		-19.174	69,665	-1.909	1.00	38.58	7 .
ATOM	606	CA	GLN	В	340		-20,258	70.564	-2.276	1.00	40.79	6
ATOM	607	СВ	GLN	В	340		-21.596	69.843	-2.079	1.00	40.82	6
ATOM	608	CG	GLN	В	340		-21.830	68.657	-3,029	1.00	41.10	6
MOTA	609	CD	GLN	В	340		-23.154	67.937	-2,783	1.00	48.84	6
ATOM	610	OE1	GLN	В	340		-23.353	67.313	-1.715	1.00	50.53	8
ATOM	611	NE2	GLN	В	340		-24.050	68.015	-3.753	1,00	54.25	7
ATOM	612	С	GLN	В	340		-20.239	71.872	-1.475	1.00	41.50	6
ATOM	613	0	GLN	В	340		-20.114	72.958	-2.032		42.72	8
ATOM	614	N	LEU	В	341		-20.352	71.736	-0.156		42.00	7
ATOM	615	CA	LEU	₿	341		-20.375	72.879	0.746		38.10	6
MOTA	616	CB	LEU	В	341		-20.401	72.419	2.201		36.66	6
ATOM	617	CG	LEU	В	341		-20.678	73.514	3.194		39.94	6
MOTA	618	CD1			341	•	-22.088	74.038	2.936	1.00	34.98	6
MOTA	619	CD2	LEU	В	341		-20.570	72.990	4.609			6
ATOM	620	C	LEU		341		-19.170	73.763	0.543		36.37	6
ATOM	621	0	LEU		341		-19.293	74.974	0.497		37.89	8
ATOM	622	N		-	342		-18.003	73.136	0.433		33.29	7
ATOM	623	CA			342		-16.737	73.843	0.239		35.17	6
ATOM	624	CB			342		-15.603	72.821	0.176		34.97	6
ATOM	625	CĞ			342		-14.210	73.401	0.306		40.00	6
MOTA	626	CD			342		-13.155	72.288	0.316		34.48	6
ATOM	627	CE			342		-11.775	72.809	0.755		37.54	6
ATOM	628	NZ			342		-10.790	71.680	0.981		42.32	7
MOTA	629	C			342		-16.744	74.685	-1.038		38.29	б
MOTA	630	0			342		-16.725	75.911	-0.993		36.23	8
ATOM	631	N			343		-16.760	73.990	-2.172			7
ATOM	632	CA			343		-16.762	74.609	-3.481		40.19	6
ATOM	633	CB			343		-16.977	73.539	-4.551		37.96	6
MOTA	634	CG			343		-16.178	72.272	-4.277		39.22	6
MOTA	635	OD1			343		-14.938	72.313	-4.106		42.37	8
MOTA	636		ASN				-16.877	71.144	-4.259		42,19	7
ATOM	637	С			343		-17.894	75.624	-3.547		40.12	6
MOTA	638	0			343		-17.835	76.600	-4.284		36.01	8
MOTA	639	N			344		-18.934	75.361	-2.756		40.95	7
ATOM	640	CA	GLY	В	344		-20.101	76.222	-2.709	1.00	39.25	6

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n moM	641	~	CT V	9	344	-19.867	77.636	-2.258	1,00 38,2	26 6
MOTA	642	С 0			344	-20,715	78.501	-2:484	1.00 35.6	
MOTA	643	N			345	-18.724	77.871	-1.619	1.00 35.8	
ATOM	644	CA			345	-18.426	79.209	-1.159	1.00 33.0	
ATOM	645	C			345	-17.848	79.298	0.230	1.00 34.0	
ATOM					345	-17.216	80.303	0.573	1.00 38.3	
ATOM	646	0			346	-17.216	78.266	1.041	1.00 39.	
ATOM	647				346	-17.563	78.279	2.403	1.00 35.0	• .
ATOM	648	CA			346	-18.311	77.256	3.269	1.00 35.	
ATOM	649	CB				-19.800	77.473			
ATOM	650	CG			346			3.378	1.00 34.8	•
ATOM	651		LEU		346	-20.322	76.678	4.554	1.00 44.0	
ATOM	652		LEU			-20.086	78.937	3.612	1.00 34.6	
ATOM	653	C			346	-16.079	78.018	2.445	1.00 33.9	
ATOM	654	0			346	-15.392	78.387	3.394	1.00 35.	
ATOM	655	N			347	-15.586	77.388	1.385	1.00 30.4	
ATOM	656	CA			347	-14,174	77,078	1.305	1,00 33.0	
ATOM	657	С			347	-13.768	76.214	2.477	1.00 30.	
ATOM	658	0	GLY		347	-14.433	75.243	2.808	1.00 30.8	
ATOM	659	N	VAL		348	-12.647	76.585	3.087	1.00 31.	
ATOM	660	CA			348	-12.097	75.867	4.227	1.00 31.3	
ATOM	661	CB			348	-10.889	76.609	4.817	1.00 31.	
ATOM	662	CG1			348	-11.292	77.974	5.360	1.00 20.	
ATOM	663	CG2	VAL			-10.250	75.786	5.905	1.00 24.	
MOTA	664	С			348	-13.136	75.651	5.360	1.00 33.	
ATOM	665	0	VAL		348	-13.002	74.707	6.153	1.00 29.	
ATOM	666	N	VAL		349	-14.157	76.518	5.449	1.00 33.	
ATOM	667	CA	VAL		349	-15.147	76.339	6.483	1.00 32.	
ATOM		CB	VAL		349	-16.226	77,393	6.476	1.00 32.	
ATOM	669		VAL		349	-17.342	76.979	7.399	1.00 33.	
ATOM	670		VAL		349	-15,667	78.703	6.959	1.00 32.	
ATOM	671	C			349	-15.792	74.987	6.380	1.00 34.	
ATOM	672	0			349	-16.055	74.359	7.394	1.00 33.	
ATOM	673	N			350	-16.054	74.507	5.176	1.00 32,	
ATOM	674	CA			350	-16.695	73.215	5.100	1,00 30.	
ATOM	675	CB			350	-16.772	72.697	3.684	1.00 24.	-
ATOM	676	OG			350	-17,538	71.502	3.644	1.00 23.	
ATOM	677	C			350	-15.910	72.254	5.942	1.00 31.	
ATOM	678	0	SER			-16.417	71.807	6.950	1.00 37.	
ATOM	679	N	ASP			-14.675	71.942	5.565	1.00 28.	
MOTA	680	CA	ASP			-13.905	71.010	6.378	1.00 29.1	
ATOM	681	CB	ASP			-12.419	71,139	6.050	1.00 27.	
ATOM	682	CG	ASP			-12.151	71.094	4.585	1.00 30.	
MOTA	683		ASP			-12.013	72.174	3.954	1.00 32.	
MOTA	684		ASP			-12.064	69.980	4.017	1.00 30.	
ATOM	685	C	ASP			-14.176	71,343	7,861	1.00 30.	
MOTA	686	0	ASP			-14.458	70.474	8.681	1.00 29.	
ATOM	687	N	ALA			-14.111	72.629	8.177	1.00 25.	
MOTA	688	CA	ALA			-14.346	73.092	9.533	1.00 28.	
MOTA	689	CB	ALA			-14.252	74.606	9.572	1,00 20.	
ATOM	690	C	ALA			-15.690	72.630	10.086	1.00 29.	
MOTA	691	0	ALA			-15.757	72.068	11.164	1.00 30.	
ATOM	692	N	ILE			-16.754	72.884	9.330	1.00 27.	
MOTA	693	CA	ILE			-18.096	72.506	9.729	1.00 27.	
ATOM	694	CB	ILE	В	353	-19.144	73.129	8.800	1.00 28.	04 6

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MOTA	695	CG2		B 35			9.195	1.00		6
atom	696	CG1		B 35			8.869	1.00	27.33	6
ATOM	697	CD1	ILE	B 35	3 -20.141	75.313	7.964	1.00	26.23	б
ATOM	698	C	ILE	B 35	3 ~18.309	71.002	9.775	1.00	30.88	б
MOTA	699	0	ILE	B 35	3 -19.021	70.499	10.639	1.00	31.22	8
MOTA	700	N	PHE	B 35	4 -17,728	70.279	8.822	1.00		7
ATOM	701	CA		B 35			8.797	1.00		6
ATOM	702	СВ		B 35			7.439	1.00		· 6
ATOM	703	CĢ		B 35			6,405	1.00		6
ATOM	704	CD1		B 35			5.833	1.00		6
ATOM	705			B 35			6.034	1.00		
ATOM	706	CE1		B 35						6
	707	CE2		B 35			4.902	1.00		6
ATOM							5.104			6
ATOM	708	CZ		B 35			4.535			6
ATOM	709	C		B 35		68.223	9.913	1.00		6
ATOM	710	0		B 35		67.429	10.700	1.00		8
ATOM	711	N		B 35		68.593	9.972	1,00		7
ATOM	712	CA		B 35		68.090		1.00		6
ATOM	713	CB		B 35		68.929	11.045	1.00		б
ATOM	714	CG		B 35		68.456	10.086	1.00	32.08	
ATOM	715			B 35		68.069	8.944	1.00	33.58	8
ATOM	716	OD2	ASP	B 35	-11.345	68.477	10.450	1.00	33.20	8
ATOM	717	С	ASP	B 35	-15.570	68.153	12.357	1.00	27.86	6
AT'OM	718	0	A\$P	B 35	-15.430	67.257	13.182	1.00	32.42	8
ATOM	719	N	LEU	B 35	-16.339	69.223	12.561	1.00	26.84	7
ATOM	720	CA	LEU	B 35	-17.085	69.400	13.803	1.00	28.66	6
ATOM	721	CB	LEU	B 35	-17.832	70.742	13.800	1.00 2	25.37	6
ATOM	722	CG	LEU	B 35	- 18.655	71.091	15.023	1.00 2	27.61	6
ATOM	723	CD1	LEU	B 35	-17.729	71.248	16.191	1,00 2	25.43	6
ATOM	724	CD2	LEU	B 35	-19.430	72.363	14.808	1,00 2	27.49	6
ATOM	725	С	LEU	B 35	-18.084	68.260	13.883	1.00		6
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ATOM	733	СВ		B 358		63.903	12.151	1,00	-	6
ATOM	734	CG		B 358		63.908	10.657	1.00 4		6
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ATOM	736	CE		B 358		65.063	10.228		4.29	6
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	ATOM	863	CB	ALA	B 375		-28.435	80.025	24.865	1.00 19.53	6	
	ATOM	864	C	ALA	B 375		-26.304	80.966	24.025	1.00 25.13	б	
	MOTA	865	0	ALA	B 375		-26.074	82.154	23.833	1.00 23.81	8	
	atom	866	N	VAL	B 376		-25,433	80.111	24.568	1.00 24.57	7	
	ATOM	867	CA	VAL	B 376		-24.102	80.526	24.986	1,00 25.80	6	
	atom	868	CB	VAL	B 376	-	-23.192	79.321	25.234	1.60 26.48	6	•
	ATOM	869	CG1	VAL	B 376		-21.806	79.780	25.620	1.00 23.20	6	
	MOTA	870	CG2	VAL	B 376		-23.771	78.433	26.310	1.00 19.08	6	
	MOTA	871	C	VAL	B 376		-23,510	81.403	23.898	1.00 25.69	6	-
	atom	872	0	VAL	B 376		-22.796	82.364	24.166	1.00 27.97	8	
	ATOM	873	N	LEU	B 377		-23.827	81,049	22.659	1.00 23.09	7	
	MOTA	874	ÇA	LEU	B 377		-23.340	81.774	21.492	1.00 22.86	6	
	ATOM	875	CB		B 377		-23.552	80.920	20.230	1.00 18.50	б	
	ATOM	876	CG		B 377		-22.756	79.638	20.146	1.00 22.65	6	
	MOTA	877			B 377		-23,221	78.786	19.000	1.00 16.70	6	
	ATOM	878	CD2		B 377		-21.300	79.995	20.000	1.00 19.58	6	
	ATOM	879	C		B 377		-24.073	83.102	21.384	1.00 26.14	6	
	MOTA	880	0		B 377		-23.464	84.164	21.419	1.00 20,62	8	
	ATOM	881	N		B 378		-25,396	83.023	21.265	1.00 28.99	7	
	ATOM	882	CA		B 378		-26.228	84.217	21.147	1.00 28.87	6	
	MOTA	883	CB		B 378		-27.696	83.894	21.450	1.00 26.89	6	
	ATOM	884	CG		B 378		-28.648	85.068	21.500	1.00 28.83	6	
	ATOM	885			B 378		-28.507	85.854	20.225	1.00 27.97	6	
	ATOM	886		LEU			-30.072	84.605	21.692	1.00 27.69	6	
	ATOM ATOM	887 888	C		B 378 B 378		-25.738	85,280	22.090	1.00 31.09	6	
	MOTA	889	N O		B 379		-25.398 -25.695	86.379 84.931		1.00 31.77	8	
	ATOM	890	CA		B 379		-25,291		23.376 24.434	1.00 31.44 1.00 32.62	7	
	ATOM	891	CB		379			85.335		1.00 32.62	6 6	
	ATOM	892	CG		B 379		-27.332	85.262	25.883	1.00 31.45	6	
	ATOM	893	SD		379		-28.020	86.915	25.550	1.00 33.73	16	
	ATOM	894	CE		379		-29.814	86.586	25.513	1.00 35.68	6	
	ATOM	895	c		379		-23,796	86.129	24.538	1.00 33.72	6	
•	ATOM	896	ō		3 379		-23.246	86.190	25.633	1.00 36.29	8	
	ATOM	897	N		3 380		-23.152	86.335	23,399	1.00 34.49	7	
	ATOM	898	CA		3 380		-21.738	86,659	23.391	1.00 33.97	6	
	ATOM	899	СВ		3 380		-21.132	86.360	22.010	1.00 31.24	6	
	ATOM	900	00		3 380		-21.224	84,978	21.696	1.00 39.42	8	
	ATOM	901	C.	SER I	380		-21.635	88.145	23.705	1.00 39.69	6	
	ATOM	902	0	SER I	380		-22.084			1.00 44.64	8	
	ATOM	903	N	SER I	3 381		-21.053	88.451	24.857	1.00 41.04	7	
	ATOM	904	CA	SER I	3 381		-20,907	89.826	25.308	1.00 44.91	6	
	ATOM	905	CB	SER I	381		-20.610	89.832	26.797	1.00 44.50	6	
	ATOM	906	OG	SER I	3 381		-19.351	89.229	27.037	1.00 45.42	8	
	MOTA	907	С	SER E	3 381		-19.815	90.614	24.602	1.00 44.59	6	
	MOTA	908		SER E			-19.725	91.825	24.751	1.00 49.32	8	
	MOTA	909		ASP I			-18.977	89.922	23.848	1.00 43.75	7	
	MOTA	910	CA	ASP E	3 382		-17.886	90,556	23.144	1.00 43.93	6	

	ATOM	911	CB	ASP	R	382	-16.72	7 8	9.562	23.028	1 00	48.39	6 -	<u>.</u>
	ATOM	912	CG	ASP		382	~17.14		8.232	22.471		53,23	6	
	ATOM	913		ASP			-18.10		7.621	23.002		56.97	8	
	ATOM	914		ASP			-16.51		7.753	21.480		58.91	8	
	ATOM	915	C			382	-18.19		1.172	21.772		41.09	6	
	ATOM	916	ŏ			382	-17.36		1.899	21,229		40.93	8	
	AŢOM	917	N	ARG			-19.36		0.908	21,224		42.63	7	
	ATOM	918	CA			383	-19.69		1.445	19.934		43.32	6	
	ATOM	919	СВ			383	-21.13		1.101	19.557		42.31	6	
	ATOM	920	CG			383	-21.61		9.672	19.811		40.83	6	
	ATOM	921	CD			383	-21.14		8.627	18.804		38.09	6	
,	ATOM	922	NE			383	-21.92		7.415	18.943		37.33	7	
	ATOM	923	CZ			383	-21.58		6.250	18.411		38.35	6	
	ATOM	924	NH1				-20.46		6.143	17.700		33.70	7.	•
	ATOM	925		ARG			-22.36		5.196	18,604		35.46	7	
	ATOM	926	С	ARG			-19.59		2.958	20,007		44.96	6	
	ATOM	927	Õ	ARG			-20.05		3.577	20,980		45.60	- 8	
	ATOM	928	N	PRO			-18.97		3.579	19.005		45.33	7	
	ATOM	929	CD			384	-18.39	•	2.881	17.854		46.85	6	
••	ATOM	930	ÇA	PRO		384	-18.80		5.035	18.947		47.37	6	
	ATOM	931	СВ	PRO			-17.86		5.255	17.764		46.90	6	
	ATOM	932	CG	PRO		384	-17.57		3.934	17.187		46.41	6	
	ATOM	933	c	PRO			-20.12		5,778	18.762		48.29	6	
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	ATOM	935	N	GLY			-20.18		6.994	19.314	1.00	49.88	7	
	ATOM	936	CA	GLY	В	385	-21.37	1 9	7.838	19.192	1.00	50.35	6	
	ATOM	937	Ċ	GLY	В	385	-22.41	0 9	7.615	20.265	1.00	50.70	6	
	ATOM	938	0	GLY	В	385	-23.38	2 9	8.363	20.374	1.00	53.48	8	
	ATOM	939	N	LEU	В	386	-22.20	5 9	6.557	21.044	1.00	49.04	7	
	ATOM	940	CA	LEU	В	386	-23.13	6 9	6.211	22.101	1,00	50.53	6	
	ATOM	941	CB	LEU	В	386	-22.64	0 9	4.972	22.853	1.00	45.17	6	
	ATOM	942	CG	LEU	В	386	-22.74	4 9	3.653	22.121	1.00	48.26	б	
	ATOM	943	CD1	LEU	В	386	-22.12	2 9:	2.525	22.938		41.68	- 6	
	ATOM	944	CD2	LEU	В	386	-24.21	5 9	3.376	21.852	1.00	38.40	6	
	ATOM	945	C	LEU			-23.32		7.357	23.058		52.13	6	
	ATOM `	946	0	LEU	В	386	-22,43	8 9	8.182	23,234	1.00	53.67	.8	•
	atom	947	N .	ALA			-24,49		7.398	23.666		53.42	7	
	MOTA	948	CA				-24.83		8.441	24.624		56.01	6	
•	ATOM ·	949	CB	ALA			-26.22		8.993	24.339		56.47	6	
	ATOM	950	С	ALA			-24.77		7.853	26,024		55.52	6	
	ATOM	951	0	ALA			-23.79		8.027	26.753		53.75	8	
	ATOM	952	N	CYS			-25,84		7.145	26.371		56.03	7	
	MOTA	953	CA	CYS			-26,00		6.525	27.673		59,57	6	
	ATOM	954	CB	CYS			-27.46		6.134	27.839		59.23	6	
	MOTA	955	SG	CYS			-28,62		7.392	27.264		58.64	16	
	MOTA	956	C	CYS			-25.10		5.283	27.798		62.18	6	
	ATOM	957	0	CYS			-25.59		4.164	27.868		67.88	8	
	ATOM	958	N	VAL			-23.78		5.510	27.824		60.78	7	
	ATOM	959	CA	VAL			-22.79		4.434	27.959		57.70	6	
	ATOM	960	CB	VAL			-21.35		4.976	27.998		57.09	6	
	ATOM	961		VAL			-20.36		3.832	28.085		59.03	6	
	ATOM	962		VAL			-21.06		5.845	26.791		53.98	6	
	ATOM	963	C	VAL			-23.07		3.642	29.230		57.77	6	
	ATOM ·	964	0	VAL	В	389	-23.72	/ 9	2.602	29.203	1.00	60.94	8	

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	ATOM	966	CA	ALA			-22.684	93.570	31.659	1.00	48.41	6	
	MOTA	967	CB	ALA			-22.650	94.681	32.716		45.19	6	
	ATOM	968	С	ALA			-23.905	92.697	31.877		47.63	6	
	ATOM	969	Ö	ALA			-23.784	91.576	32.369		51,95	8	
	ATOM	970	N			391	-25.075	93.216	31.498		47.11	7.	
	ATOM	971	ÇA	ARG			-26.330	92.481	31.656		51.64	6	
	ATOM	972	CB	ARG			-27.502	93.318	31.122		54.22	ě	
	ATOM	973	CG	ARG			-28.887	92.713	31.430		64.20	б	
	ATOM	974	CD	ARG			-30.059	93.582	30.929		73.80	6	
	ATOM	975	NE	ARG			-31.361	93.097	31.378		79.76	7	
		975	CZ	ARG			-31.736	93.037	32.656		84.27		
	MOTA	977		ARG			-31.736	93.372	33.625		85.28	6 7	
	ATOM							92.566			•		
	ATOM	978	C NHZ	ARG ARG			-32.957 -26.277	91.133	32.955		86.84	7	
•	ATOM	979	Ö	ARG			-26.277 -26.724	91.133	30.940 31.465		48.18	6	·
	ATOM	980.		ILE			-26.724 -25.743	90.119			49.57	8	
•	ATOM	981	N				-25.743	89.999	29.718		45.01	7	
	MOTA	982	CA	ILE					28.867		48.77	6	
	ATOM	983	CB	ILE			-25.112	90.424	27.469		46.45	6	
	AŢOM	984	CG2	ILE			-24.805	89.221	26.614		42.35	6	
	ATOM	985	CG1	ILE		392	-26.178	91.283	26.768		49,69	6	
	ATOM	986	CD1				-25.762	91,768	25.386		51.09	6	
	ATOM	987	C	ILE			-24.671	88.935	29.462		50.90	6	
	ATOM	988	0	ILE			-25.086	87.780	29.605		52.21	8	
	ATOM	989	N	GLU			-23.431	89.298	29.790		50.43	7	
	ATOM	990	CA	GLU			-22.504	88.328	30.378		50.30	6	
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	MOTA	992	CG	GLU			-20.063	89.005	30.209 30.976		62.18	6	
	MOTA	993	CD	GLU			-18.877	89.415			67.69	6	
	ATOM	994	OE1	GLU GLU			-17.709	89.264 89.976	30.656		66.42	8	
	ATOM	995	OE2				-18.897		32.052		70.64	8	•
	ATOM	996 997	C O	GLU GLU			-23.251 -23.226	87.477 86.260	31.416 31.303		49.31 49.53	6 8	
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	ATOM	999	N CA	LYS			-23.898	87.579	33.506		45.76	6	
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				LYS			-25.626	86,548	32.851		46.69	6	
•	ATOM	1001 1002		LYS			-25.772	85.430	33.329		49.13	8	
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	ATOM ATOM	1003	N CA	TYR			-27.076	86.078	30.938		43.33	6	
	ATOM	1004	CB	TYR			-27.621	86.821	29.716		43.33	6	
		1005	CG	TYR			-27.621	87.688	29.716		53.83	6	
	ATOM	1006		TYR			-28.827	88.680	29.980		56.43	6	
	ATOM												
	ATOM	1008		TYR			-30.331 -29.596	89.469	29.309		59.73	6	
	ATOM	1009		TYR				87.509	31.113		56.47	6	
	ATOM	1010		TYR			÷30.723	88,295	31.346		62.60	6	
	ATOM	1011	CZ	TYR			-31.090	89.281	30.446		63.18	6	
	ATOM	1012	ОН	TYR :			-32.189	90.068	30.671		64.46	8	
	ATOM	1013	С	TYR :			-26.276	84.867	30.485		37.30	6	
	ATOM	1014	0	TYR			-26.611	83.737	30.825		34.10	8	
	ATOM	1015	N	GLN I			-25.213	85.108	29.718		31.92	7	
	ATOM	1016	CA	GLN I			-24.380	84.018	29.244		34.81	6	
	ATOM	1017	CB	GLN I			-23.176	84.550	28.464		32.64	6	
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ATOM
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                                                                              б
ATOM
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ATOM	1348	С			434		-15.106	83.116	8.062		34.09	6
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ATOM ATOM	1372	CB	ARG		438		-15.526	84.068 82.660	2.908 3.259		39.30	6
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ATOM
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                                              87,158
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                   PRO B
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MOTA
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                                                                 1.00 47.17
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                    LEU B 454
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                                                        5.497
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ATOM
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                          457
                                   -30.208
                                                                1.00 20.00
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                                                        6.954
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ATOM
        1539
               CD
                   GLU
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                          457
                                                                1.00 20.00
                                   -31.646
                                              93.338
                                                        6.782
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ATOM
        1540
               OE1 GLU
                          457
                                   -32.351
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ATOM
        1541 'OE2 GLU B 457
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                                                        7,638
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                                                                               8
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ATOM
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                       B
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                                                                               б
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MOTA
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                   PHE B 459
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                                                        6.623
                                                                1.00 52.71
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	7 TOM	1650	•	nuc	D	450		21 414	. 050	6 701	1 00	63 24		
	MOTA	1559	0			459		-21.414	91.050	6.791		51.34	8	
	ATOM	1560	N			460		-23.489	91.531	5.976		62.92	7	
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	ATOM	1563	CG			460		-22.917	94.002	3.412		78.35	6	
,	MOTA	1564	CD			460		-22.908	95.480	3.256		82.97	б	
·	MOTA	1565	OE1					-23.257	96.213	4.217		88.28	8	
	ATOM	1566	OE2					-22.524	95.977	2.167	1.00	84.80	8	
	MOTA	1567	C			460		-22.790	93.576	6.786	1.00	71.87	6	
	MOTA	1568	0	GĻU			•	-23.471	93.391	7.802	1.00	74.51	8	
•	ATOM	1569	N	ASP	B	461		-21.796	94.449	6,696	1.00	78.50	7	
•	ATOM	1570	CA	ASP	B	461		-21.401	95.328	7.701	1.00	84.19	б	
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	ATOM	1573		ASP				-19.670	93.929	5.982	1.00	93,00	8	
	ATOM	1574	OD2	ASP	В	461	•	-18.084	95.361	6.387	1.00	93.04	8	
	ATOM	1575	C	ASP	В	461		-22.540	96.291	8.012	1.00	86.80	6	
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	ATOM	1577	OXT	ASP	В	461		-22.962	97.048	7.098	1.00	88.70	8	
	TER													
	ATOM	4002	C1	Т3	J	1		20.152	36.643	29.561	1.00	22.34	6	
	ATOM	4003	Ç2	Т3	J	1		19.021	41.567	29.283	1.00	21.84	6	
,	ATOM	4004	C3	T 3	J	1		18.880	37.086	29.226	1.00	23.43	6	
	ATOM	4005	C4	т3	J	1		18.249	42.606	28.776	1.00	22.31	6	
	ATOM	4006	C5	т3	J	1		18.747	38.372	28.866	1.00	24.83	6	
	ATOM	4007	C6	т3	J	1		17.938	43.621	29.664	1.00	25,16	б	
	ATOM	4008	C7	T3	J	1		19.799	39.296	28.753	1,00	24.65	6	
	ATOM	4009	C8	TЗ	J	1		18.330	43.594	31,028	1.00	21.93	6	
	ATOM	4010	C9	ТЗ	J	1		21.101	38.940	29.075	1,00	25.09	6	
	MOTA	4011	C10	T3	J	1		19.063	42.558	31.465	1.00	23.66	б	
	ATOM	4012	Cll	Т3	J	1		21.254	37.600	29.456	1.00	23.12	6	
	ATOM	4013	C12	T3	J	1		19.459	41.490	30.621	1.00	19.67	6	
	ATOM	4014	C13	T 3	J	1		20.370	35.228	30.075	1.00	18.97	6	
	ATOM	4015	C15	T 3	J	1		21.549	34.480	29.455	1.00	19.32	6	
	ATOM	4016	C17	T 3	J	1		21.535	33.003	29.710	1.00	19.02	6	
	ATOM	4017	I1	Т3	J	1		16,898	39.029	28.661	1,00	25.29	53	
	ATOM	4018	12	Т3	J	1		17.058	45.327	29.154	1.00	26.49	53	
	ATOM	4019	13	Т3	J	1		22.763	40.262	29.169	1.00	25.67	53	•
	ATOM	4020	N1	Т3	J	1		21.800	34.859	28.024		15.12	· 7	
	ATOM	4021	01	Т3	J	1		17.934	44.682	31.806		21.79	8	
	MOTA	4022	02		J	1		19.432	40.560	28.362		22.05	8	
	ATOM	4023	03		J	1		21.911	32.260	28.776		20.38	8	
	MOTA	4024	04	Т3	J	1		21.137	32.622	30.840		20.16	8	
,	TER										,			
	MOTA	4025	C1	т3	K	1		-28.131	75.928	7.543	1.00	22.34	6	
	ATOM	4026	C2		K	1		-24.676	77,673	4.318		21.84	6	
	ATOM	4027	C3		ĸ	1	•	-28.490	76.351	6.201		23.43	• 6	
	ATOM	4028	C4		ĸ	1		-24.217	77.893	2.989		22.31	6	
	ATOM	4029	C5 ·		ĸ	ı		-27.485	76.499	5.233		24.83	6	
	ATOM	4030	C6		K	1		-23.545	79.124	2,700		25.16	6	
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	ATOM	4032	C8		K	1		-23.382	80.104	3.772		21.93	6	
	ATOM	4032			K	1		-25.685	75.833	6.855		25.09	6	
	ATOM	4034	C10		K	1		-23.867	79.823	5.042		23.66	6	
	111 014	3004	-10	£ J		-		23.007		2.044	1.00	49.00	0	

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	ATOM	4035	C11	т3	к	. 1	-26.708	75.670	7.834	1.00 23.12	6 -
	ATOM	4036		Т3	K		-24.521	78,610	5.376	1.00 19.67	6
	ATOM	4037	C13		K		-29.211	75.830	8.626	1.00 18.97	6
	ATOM	4038	C15		K		-29.181	74.567	9.488	1.00 19.32	6
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	ATOM	4040	I1	T3	ĸ			77.342	3.316	1.00 25.29	53
	ATOM	4041	12	Т3	K		-22.732	79.619	0.850	1.00 26.49	53
	ATOM	40.40	· 13	T3	K		-23.602	75.792	7.334	1.00 25.67	53
	ATOM	4043	N1	T3	K		-28.680	73.342	8.762	1.00 25.87	7
	ATOM	4044	01	T3	K	1	-22.742	81.265	3.443	1.00 13.12	8
	ATOM	4045	02	T3	K	1	-25.267	76.388	4.595	1.00 22.05	8
	ATOM	4045	Q3	T3	K	1	-30.816	73.159	10.382	1.00 20.38	
	ATOM	4047	04	T3	K	1	-31.028	75.359	10.362		8
	TER	4047	O4	1 2	V		-31.020	13.339	10.729	1.00 20.16	6 .
. ,	ATOM	1	С	TVC	v	686	13.868	40.176	48.888	1.00 40.00	e
	ATOM	1	0			686	13.914	40.176	47.639	1.00 40.00	6
		2	N			686		42.245	50.489	1.00 40.00	8
	ATOM					686	14.374				7
	ATOM	4	CA				14.937	41,070 39.527	49.710	1.00 40.00	6
	MOTA	5 6	N			687 687	13.038 11.891		49.705 49.521	1.00 40.00	7
	ATOM	7	CA CB			687		38.518		1.00 40.00	6
	ATOM		CG			687	10.639	39.000	50.212		6
	ATOM	8 9		HIS			10.981	39.526	51.563	1.00 40.00	6
	ATOM	10		HIS			11.021	38.908 40.844	52.753	1.00 40.00	6
	ATOM ATOM	11		HIS			11.354 11.614	40.844	51.754 53.034	1.00 40.00	. 7.
	ATOM	12		HIS			11.422	39.847	53.646	1.00 40.00	6
	ATOM	13	C	HIS			11.183	38.108	48.208	1.00 40.00	7
	ATOM	14	0	HIS			11.183	38.361	47.094	1.00 40.00	б 8
	ATOM	15	N	LYS			10.064	37.458	48.649	1.00 40.00	7
	ATOM	16	CA	LYS			8.911	36.858	47.931	1.00 40.00	6
	ATOM	17	CB	LYS			8.292	37.850	46,968	1.00 40.00	б
	ATOM	18	C	LYS			9.246	35.573	47.161	1.00 40.00	6
	ATOM	19	0.	LYS			9.319	34.473	47.722	1.00 40.00	8
	ATOM	20	N	ILE			9.426	35.754	45.865	1.00 40.00	7
	ATOM	21	CA	ILE			9.661	34.640	44.924	1.00 40.00	6
	ATOM	22	CB	ILE			9.731	35.167	43.498	1.00 40.00	6
	ATOM	23		ILE			9.638	34.053	42.453	1.00 40.00	6
	ATOM	24		ILE			8.597	36.141	43.176	1.00 40.00	6
	ATOM	25		ILE			8.250	36.183	41.688	1.00 40.00	6
	ATOM	26	~ .	ILE			10.954	33.869	45.228	1.00 40.00	6
•	ATOM	27	Õ	ILE			10.920	32.657	45.511	1.00 40.00	8.
	ATOM	28	N	LEU			12.065	34.579	45.140	1.00 40.00	7
	ATOM	29	CA	LEU			13.391	33.996	45.397	1.00 40.00	6
	ATOM	30	CB	LEU			14.349	35.043	45.892	1.00 40.00	6
	ATOM	31	CG	LEU			14.450	36.168	44.906	1.00 40.00	6
	ATOM	32		LEU			15.397	37.261	45.363	1.00 40.00	6 .
	ATOM	33		LEU			14.940	35.695	43.540	1.00 40.00	6
	ATOM	34	CDZ	LEU			13.271	32.999	46.466	1.00 40.00	6
	ATOM	35	0	LEU			13.633	31.832	46.315	1.00 40.00	8
	ATOM	36	N	HIS			12.773	33.472	47.541	1.00 40.00	7
	ATOM	36 37	CA	HIS			12.773	32.559	48.569	1.00 40.00	, 6
	ATOM	38	CB	HIS			11.729	33.212	49.658	1.00 40.00	6
	ATOM	36 39	CG	HIS			12.588	34.116	50.564	1.00 40.00	
	ATOM	40		HIS			13.648	33.852		1.00 40.00	6 6
	WI ON	40	CUZ	UT2	^	ロフエ	13.040	33.032	51.385	1.00 40.00	0

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ATOM
           41
                ND1 HIS X 691
                                      12.359
                                               35.484
                                                        50.669
                                                                 1.00 40.00
                                                                                7 -
 MOTA
           42
                CE1 HIS X 691
                                      13.242
                                               35.991
                                                        51.513
                                                                 1.00 40.00
                                                                                6
           43
 MOTA
                NE2 HIS X 691
                                      14.016
                                               35.031
                                                        51.949
                                                                 1.00 40.00
                                                                                7
 MOTA
           44
                C
                    HIS X 691
                                      11.954
                                               31.331
                                                        47.861
                                                                 1.00 40.00
                                                                                6
 ATOM
           45
                Ō
                    HIS X
                           691
                                      12.505
                                              30.240
                                                        47.882
                                                                 1.00 40.00
                                                                                8
 ATOM
           46
                N
                    ARG X 692
                                      10,839
                                               31.494
                                                        47.167
                                                                 1.00 40.00
                                                                                7
 MOTA
           47
                CA
                    ARG X 692
                                               30.333
                                      10.169
                                                        46.518
                                                                 1.00 40.00
                                                                                б
 MOTA
           48
                CB
                    ARG X 692
                                       9.118
                                              30.800
                                                        45.517
                                                                 1.00 40.00
                                                                                6
           49
 ATOM
                C
                    ARG X 692
                                     11.153
                                              29.402
                                                        45.752
                                                                 1.00 40.00
                                                                                б
 ATOM
           50
                0
                    ARG X 692
                                     11.030
                                              28,168
                                                        45.779
                                                                 1.00 40.00
                                                                                8
 ATOM
           51
                N
                    LEU X 693
                                     12.117
                                              30.000
                                                        45.072
                                                                                7
                                                                 1,00 40.00
 ATOM
           52
               CA
                    LEU X 693
                                     13.078
                                              29.252
                                                        44.226
                                                                 1.00 40.00
                                                                                6
 ATOM
           53
               CB
                    LEU X 693
                                     13.784
                                              30.210
                                                        43.274
                                                                 1.00 40.00
                                                                                б
 MOTA
           54
               CG
                    LEU X 693
                                     12.796
                                              31.012
                                                        42.432
                                                                 1.00 40.00
                                                                                б
ATOM
           55
               CD1 LEU X 693
                                     13.479
                                              31.969
                                                        41.458
                                                                 1.00 40.00
                                                                                б
ATOM
           56
               CD2
                   LEU X 693
                                     11.884
                                              30.126
                                                        41.579
                                                                 1.00 40.00
                                                                                б
ATOM
           57
               C
                    LEU X 693
                                     14:143
                                              28.531
                                                        45.054
                                                                 1.00 40.00
                                                                                6
ATOM
           58
               0
                    LEU X 693
                                     14.702
                                              27.508
                                                        44.633
                                                                 1.00 40.00
                                                                                8
ATOM
           59
               N
                    LEU X 694
                                     14.400
                                              29.079
                                                        46.209
                                                                 1,00 40.00
                                                                                7
ATOM
           60
               CA
                    LEU X
                           694
                                     15.407
                                              28.538
                                                        47.115
                                                                 1.00 40.00
                                                                                б
ATOM
           61
               CB
                    LEU X
                           694
                                     15.871
                                              29.626
                                                        48.084
                                                                 1.00 40.00
                                                                                6
ATOM
           62
               CG
                    LEU X
                           694
                                     16.692
                                              30.716
                                                        47.404
                                                                 1.00 40.00
                                                                                б
ATOM
           63
               CD1 LEU X
                          694
                                     17.279
                                              31.724
                                                        48.391
                                                                 1.00 40.00
                                                                                6
ATOM
           64
               CD2 LEU X
                          694
                                     17.879
                                              30.156
                                                        46.619
                                                                 1.00 40.00
                                                                                6
ATOM
           65
               C
                    LEU X
                          694
                                     14.837
                                              27.404
                                                        47.957
                                                                 1.00 40.00
                                                                                6
ATOM
           66
               0
                    LEU X 694
                                     15.555
                                              26.747
                                                        48.716
                                                                 1.00 40.00
                                                                                8
ATOM
                    GLN X 695
           67
               N
                                     13.554
                                              27.157
                                                       47.809
                                                                 1.00 40.00
                                                                                7
MOTA
           68
               CA
                    GLN X
                          695
                                     12.883
                                              26.188
                                                       48.685
                                                                 1.00 40.00
                                                                                6
ATOM
          69
               C
                    GLN X
                          695
                                                       47.977
                                     12.423
                                              24.910
                                                                 1.00 40.00
                                                                                6
ATOM
          70
               0
                    GLN X 695
                                     12.309
                                              23.845
                                                       48.598
                                                                 1.00 40.00
                                                                                8
MOTA
          71
               CB
                    GLN X 695
                                     11.681
                                              26.858
                                                       49.322
                                                                 1.00 40.00
                                                                                6
MOTA
          72
               CG
                    GLN X 695
                                     12.074
                                              28.125
                                                       50.080
                                                                 1.00 20.00
                                                                                б
MOTA
          73
               CD
                    GLN X 695
                                     10.899
                                              28,768
                                                       50.801
                                                                 1.00 20.00
                                                                                6
ATOM
          7.4
               OE1
                   GLN X 695
                                      9.772
                                              28.296
                                                       50.671
                                                                 1.00 20.00
                                                                                8
ATOM
               NE2 GLN X 695
          75
                                     11.092
                                              29.828
                                                       51.560
                                                                 1.00 20.00
                                                                                7
ATOM
          76
               N
                    ASP
                        X 696
                                     12.155
                                              25.020
                                                       46.714
                                                                 1.00 40.00
                                                                                7
ATOM
          77
               CA
                    ASP X 696
                                     11.698
                                              23.885
                                                       45.910
                                                                 1.00 40.00
                                                                                6
ATOM
          78
               CB
                   ASP X 696
                                     11.450
                                              24.400
                                                       44,497
                                                                 1.00 40.00
                                                                               6
ATOM
                    ASP X 696
          79
               CG
                                     10.782
                                              23.411
                                                       43.548
                                                                 1,00 40.00
                                                                                6
ATOM
          80
               OD1 ASP
                       X
                          696
                                     10.550
                                              22.203
                                                       43.920
                                                                 1.00 40,00
                                                                               8
ATOM
          81
               OD2 ASP X 696
                                     10.449
                                              23.804
                                                       42.362
                                                                 1.00 40.00
                                                                               8
ATOM
          82
               C
                   ASP X 696
                                     12.774
                                              22.806
                                                       45.876
                                                                 1.00 40.00
                                                                               6
ATOM
          83
               0
                   ASP X 696
                                     13.937
                                              23.077
                                                       45.562
                                                                 1.00 40.00
                                                                               8
ATOM
          84
               N
                   SER X 697
                                     12.370
                                              21.610
                                                       46.213
                                                                1.00 40.00
                                                                               7
ATOM
          85
               CA
                   SER X 697
                                    13,258
                                              20.453
                                                       46.128
                                                                1.00 40.00
                                                                               6
ATOM
          86
               CB
                   SER X 697
                                    12.685
                                              19.371
                                                       47.049
                                                                1.00 40.00
                                                                               6
MOTA
          87
               OG
                   SER X 697
                                    12.535
                                              19.899
                                                       48.374
                                                                1.00 40.00
                                                                               8
MOTA
          88
               C ·
                   SER X 697
                                    13,329
                                              20.130
                                                                1.00 40.00
                                                       44,613
                                                                               6
ATOM
          89
               0
                   SER X 697
                                    14.247
                                                                1.00 40.00
                                              20.573
                                                       43.914
                                                                               8
MOTA
          90
               N
                   SER X 698
                                    12.355
                                              19.357
                                                       44.183
                                                                1.00 40.00
                                                                               7
MOTA
          91
               CA
                   SER X
                          698
                                    11.985
                                              19.100
                                                       42.752
                                                                1.00 40.00
                                                                               6
MOTA
          92
               CB
                   SER X
                          698
                                    11.693
                                              20.417
                                                       42.036
                                                                1.00 40.00
                                                                               б
MOTA
          93
               OĢ
                   SER X
                          698
                                    10.510
                                              21.000
                                                       42.577
                                                                1,00 40.00
                                                                               8
          94
ATOM
               C.
                   SER X 698
                                    12.887
                                              18.340
                                                       41.758 1.00 40.00
                                                                               6
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		•									
MOTA	95	0	SEF	кх	698	13.253	17.158	42.026	1.00	40.00	8
MOTA	96	OX:	r sep	t X	698	13.131	18,976	40.714		40.00	8
TER	•										
ATOM	1	CB	LYS	Y	688	-33.793	96.885	6.491	1.00	40.00	6
ATOM	2	С	LYS	; Y	688	-35.002	95.370	8.130	1.00	40.00	6
ATOM	3	0	LYS	Y	688	-36.027	95.520	8.779		40.00	8
ATOM	4	N	LYS	¥	688	-32.717	96.619	8.695		40.00	7
ATOM	. 5	CA	LYS		688	-34.040	96.591	7.954		40.00	6
ATOM	6	N	ILE	Y	689	-34.578	93.781	6.908		40.00	
ATOM	7	CA			689	-35.862	93.106	7.268		40.00	6
ATOM	8	CB			689	-35.971	91.759	6.572		40.00	6
ATOM	9	CG2	! ILE	Y	689	-37.270	91.077	6.932		40.00	6
ATOM	10	CG1			689	-35.917	91.937	5.062		40.00	6
ATOM	11	CD1			689	-36.341	90.691	4.289		40.00	6
ATOM	12	С	ILE		689	-36.032	92.870	8.780		40.00	6
ATOM	13	0			689	-36.913	93.446	9.442		40.00	8
ATOM	14	N			690	-35.019	92.834	9.787		40.00	. 7
ATOM	15	CA			690	-34.956	92.320	11.163		40.00	6
ATOM	16	СВ			690	-33.528	92.432	11.697		40.00	6
ATOM '	17	CG	LEU		690	-32.516	91.647	10.864		40.00	6
ATOM	18	CD1			690	-31.087	91.764	11.397		40,00	6
ATOM	19	CD2	LEU			-32.819	90.148	10.812		40.00	6
ATOM	20	C	LEU	Y	690	-35.899	93.123	12.065	1.00		
ATOM	21	0	LEU	Y	690	-36.570	92.492	12.928	1.00		8
ATOM	22	N	HIS	Y	691	-36.039	94.731	11.373		-	7
MOTA	23	CA	HIS	Y	691	-36.634	94.923	12.683	1.00		6
ATOM	24	CB	HIS	Y	691	-36.854	96.383	12.935	1.00		6
ATOM	25	CG	HIS	Y	691	-35.610	97.153	13.078	1.00		6
ATOM	26	CD2	HIS	Y	691	-34.757	97.640	12.159		40.00	6
ATOM	27	ND1	HIS	Y	691	-35.129	97.579	14.319		40.00	7
MOTA	28	CE1	HĮS	Y	691	-34.039	98.290	14.122	1.00	40.00	6
ATOM	29	NE2	HIS	Y	691	-33.786	98.346	12.815	1.00	40.00	. 7
ATOM	30	С.	HIS	Y	691	-37.972 [.]	94.287	12.756	1.00	40.00	6
ATOM .	31	0	HIS	Y	691	-38.240	93.417	13.545	1.00	40.00	8
ATOM	32	N	ARG	Y	692	-38.265	94.388	11.505	1.00	40.00	7
ATOM	33	CA	ARG	Y	692	-39.577	93.869	11.276	1.00	40.00	6
ATOM	34	CB	ARG			-39.653	93.692	9,795	1.00	40.00	б
ATOM	35	CG	ARG			-40.759	92.764	9.329	1.00	40.00	6
MOTA	36	CD	ARG			-40.618	92.422	7.848	1.00	40,00	6
MOTA	37	NE	ARG			-41.849	92.641	7.091	1.00	40.00	7
ATOM	38	CZ	ARG			-41.898	92.758	5.763	1.00	40.00	6
MOTA	39		ARG			-40.784	92.695	5.024	1.00	40.00	7
ATOM	40	NH2				-43.034	92.940	5.080	1,00	40.00	7
MOTA	41	С	ARG	Y	692	-39.941	92.547	11.995	1.00	40.00	6
MOTA	42	0	ARG	Y	692	-41.001	92.440	12.649	1.00	40.00	8
MOTA	43	N	LEU	Y	693	-39.095	91.576	11.816	1.00	40.00	7
MOTA	44	CA	LEU	Y	693	-39.230	90.232	12.395	1.00	40.00	6
MOTA	45	CB	LEU	Y	693	-38.362	89.337	11.615	1.00	40.00	6
ATOM	46	CG	LEU			-38.737	89.375	10.132	1.00	40.00	.6
ATOM	47	CD1	LEU.			-37.794	88.570	9.247	1.00	40.00.	
ATOM	48		LEU			-40.142	88.827	9.862	1.00	40.00	6
MOTA	49	С	LEU			-38.921	90.378	13.816	1.00	40.00	6
ATOM	50	0	LEU	Y	693	-39.191	89.474	14,615	1.00	40.00	8
ATOM	51	N	LEU	Y	694	-38.366	91.533	14,076	1.00	40.00	7

ATOM ATOM	53	СВ						15.435		40.00
ATOM		CU	LEU	Y	694	-37.181	93.002	15.561	1.00	40.00
	54	CG	LEU	Y	694	-35.799	92.377	15.869	1.00	40.00
ATOM	55	CD1	LEU	Y	694	-34.897	93.275	16.702	1.00	40.00
ATOM	56	CD2	LEU	Y	694	-35.897	91.055	16.661	1.00	40.00
ATOM	57	С	LEU	Y	694	~39.596	91.903	15.915	1.00	40.00
MOTA	58	0	LEU	Y	694	-39.985	91.253	16.858	1.00	40.00
MOTA	59	N	GLN	Y	695	-40.787	92.229	15.048	1.00	40.00
ATOM	60	CA	GLN	Y	695	-42.034	91.457	15.543	1.00	40.00
ATOM	61	С	GLN	Y	695	-43.054	90.901	14.240	1.00	40.00
ATOM	62	0	GLŅ	Y	695	-43.102	91.557	13.189	1.00	40.00
ATOM	63	CB	GLN	Y	695	-42.362	92,025	16.923	1.00	40.00
ATOM	64	CG	GLN	Y	695	-41.013	92.101	17.768	1.00	40.00
ATOM	65	ÇD	GLN	Y	695	-40.943	91.235	19.059	1.00	40.00
ATOM	66	OEl	GLN	Y	695	-41.828	90.426	19.318	1.00	40,00
ATOM	67	NE2	GLN	Y	695	-39.938	91.399	19.916	1.00	40.00
ATOM	68	N	A\$P	Y	696	-43.802	89.498	14.402	1.00	40.00
MOTA	69	CA	ASP	Y	696	-44.784	88,354	13.428	1.00	40,00
ATOM	70	С	ASP			-46.034	88.934	12.759	1.00	40.00
MOTA	71	O.	ASP	Y	696	-46.266	88.655	11.529	1.00	40.00
ATOM	72	CB	ASP		696	-45.211	87.192	14.322	1.00	40.00
MOTA	.73	CG	ASP		696	-44.021	86.560	15.058	1.00	40.00
ATOM	74	OD1				-42.823	86.994	14.844		40.00
MOTA	75	OD2	ASP	Y	696	-44.212	85.591	15.889	1.00	40.00
END										•
								•		

Appendix 2

Atomic Coordinates for Human ERα Complexed with DES, and a GRIP1 NR-box 2 Peptide

CRYST1	54.09	4 82	.217	58.	041	90.00	1	11.33	90,	.00	P 21	2
ORIGX1	1.00	0000	0.000	0000	0.	000000	0	. 00000				
ORIGX2		0000	1.000			000000		.00000				
ORIGX3		0000	0.000			000000		.00000				
SCALE1		18486	0.000			007221		.00000				
SCALE2	0.00		0.012			000000		.00000				
SCALE3	-	0000	0.000			018497		.00000				
ATOM	1	СВ	SER	A	305			-14.7				73.26
ATOM	2	C	Ser	A	305			-14.3		1.289		72.95
ATOM	3	0	SER	A	305			-13.9		1.186		72.46
MOTA	4	N	SER	A	305			-16.6		0.285		74.06
ATOM	5	CA	SER	A	305			-14.7		0.061		73.59
MOTA	б	N	LEU	A	306			-14,3		2.449		72.21
ATOM.	7	CA	LEU	A	306			-13.9		3.702		71.05
ATOM	8	CB	LEU	A	306		.251			4.878		70.19
MOTA	9	С	LEU	A	306		.929			3.719		69.57
MOTA	10	0	LEU	A	306		.580			3.100		69.96
MOTA	11	N	ALA	A	307		. 851			4.434		68.06
MOTA	12	CA	ALA	A	307		. 358	-10.8		4.541		64.88
MOTA	13	CB	ALA	A	307		.841			4.436		65.83
ATOM	14	C	ALA	A	307		.792	-10.2		5.866		63.36
ATOM	15	0	ALA	A	307		.878	-8.9		6.005		62.73
ATOM	16	N	LEU	A	308					6.842		62.52
ATOM	17	CA	LEU	A	308			-10.5		8.156		62.57 62.81
ATOM	18	CB CG	LEU	A.	308 308		.423	-11.7 -12.6		9.171 9.130		64.21
ATOM ATOM	19 20	CD1	ren .	A A	308			-13.5				66.28
ATOM	21	CD2	LEU	A	308			-11.8		8.989		63.80
ATOM	22	CD2	LEU	A	308		.903	-10.0		8.100		61.61
ATOM	23	0	LEU	A	308		.385	-9.4		9.066		62.92
ATOM	24	N	SER	A	309		.561			6.959		60.50
ATOM	25	CA	SER	A	309		.928	-9.7		6,771		58.73
ATOM	26	CB	SER	A	309		.720	-10.7		5.934		59.53
ATOM	27	og	SER	A	309		.889	-10.2		4.606		59.47
ATOM	28	c	SER	A	309		. 986	-8.3		6.099		57.05
ATOM	29	0	SER	A	309		. 965	-7.6	37	6.249		56.70
ATOM	30	N	LEU	A	310		,940	-8.0		5.352		52.69
ATOM	31	ÇA	LEU	A	310		.877	-6.7		4.658		48.20
ATOM	32	CB.	LEU	A	310	35	.516	-6.5	96	3.974	1.00	48,32
ATOM	33	CG	LEU	A	310		.301	-7.1		2.583		44.94
ATOM	34	CD1		A	310	33	.951	-6.7	28	2.055	1.00	46.45
ATOM	35	CD2	LEU	A	310	36	.417	-6.7	55	1.650	1.00	43.19
ATOM	36	С	LEU	A	310	37	.086	-5.5	89	5.609	1.00	46.44
MOTA	37	0	LEU	A	310		.605	-5.6	07	6.741	1.00	46.78
ATOM	38	N	THR	A	311	37	. 812	-4.5	76	5.148	1.00	44.36
ATOM	39	CA	THR	Α	311	38	.034	-3.3	80	5.949	1.00	42.88
ATOM	40	CB	THR	Α	311	39	.313	-2,6	33	5.532	1.00	42.31
MOTA	41	OG1	THR	A	311	39	.079	-1.9	36	4.303	1.00	42.50
ATOM	42	CG2	THR	A	311	40	. 464	-3.6	06	5.350		46.02
ATOM	43	C	THR	A	311		.834	-2.4		5,674		43.21
ATOM	44	0	THR	Α	311	36	.021	-2.7	76	4.800	1.00	42.12

ATOM	45	N	ALA	A	312	36.726	-1.372	6.409	1.00	42.16
MOTA	46	CA	ALA	A	312	35,616	-0.444	6.228	1.00	40.10
ATOM	47	CB	ALA	Ą	312	35,741	0.709	7.205	1.00	40.07
ATOM	48	C	ALA	A	312	35.561	0.090	4,799	1,00	41.80
ATOM	49	0	ALA	A	312	34.510	0.074	4.154	1,00	37.81
MOTA	50	N	ASP	Α	313	36.698	0.564	4.304	1.00	42.35
ATOM	51	CA	asp	A	313	36.752	1.104	2.953	1.00	42.27
ATOM	52	CB	ASP	A	313	38.133	1.703	2.680	1.00	43.74
ATOM	53	CG	ASP	A	313	38.323	3.054	3.348	1.00	46.62
MOTA	54	OD1	ASP	A	313	39.414	3.64\$	3.205	1.00	51.01
ATOM	55	OD2	ASP	A	313	37.380	3.529	4.015	1.00	48,89
ATOM	56	C	ASP	A	313	36.422	0.027	1.926	1.00	38.68
ATOM	57	0	ASP	A	313	35.704	0.281	0.959	1.00	38.75
ATOM	58	N	GLN	A	314	36.931	-1.179	2.145	1.00	34.76
ATOM	59 .	CA	GLN	A	314	36.666	-2.277	1.229	1.00	33.55
ATOM	60	CB	GLN	Α	314	37.462	-3.512	1.643	1.00	36.90
ATOM	61 .	CG	GLN	A	314	38.963	-3.384	1.436	1.00	40.45
ATOM	62	CD	GLN	A	314	39.700	-4.610	1.905	1.00	43.13
ATOM	63	OE1	GLN	A	314	39.394	-5.196	2.935	1.00	43.60
ATOM	64	NE2	GLN	A	314	40.701	-5.032	1.117	1,00	44.03
	· 65	C	GLN	A	314	35.176	-2.595	1.201	1.00	34.95
ATOM	66	0	GLN	A	314	34.605	-2.860	0.140	1.00	32.89
ATOM `	67	N	MET	A	315	34.542	-2.564	2.374	1.00	32.54
ATOM	68	CA	MET	A	315	33.115	-2.848	2.470	1.00	35.46
ATOM	69	CB	MET	A	315	32.650	-2.794	3.926	1,00	37.09
ATOM	70	CG	MET	A	315	31.137	-2.777	4.097	1.00	39.42
ATOM	71	SD	MET	A	315	30.443	-4.426	4.053	1.00	46.55
ATOM	72	CE	MET	A	315	31.351	-5.205	5.397	1.00	45.29
ATOM	73	C	MET	A	315	32.311	-1.859	1.640	1.00	31,83
ATOM	74	0	MET	A	315	31.453	-2.247	0.852	1.00	32.10
ATOM	75	N	VAL	Α	316	32.587	-0.560	1.830	1,00	32.62
ATOM	76	CA	VAL	Α	316	31.882	0.470	1.079	1.00	31,09
ATOM	77	CB	VAL	A	316	32.395	1.888	1.425	1.00	34.77
ATOM	78	CG1	VAL	A	316	31.786	2.899	0.461	1.00	34.10
ATOM	79	CG2	VAL	A	316	32.021	2.246	2.862	1.00	34.40
ATOM	80	С	VAL	A	316	32.092	0.232		1.00	33.48
ATOM	81	0	VAL	A	316	31.145	0.266		1.00	32.49
ATOM	82	N	SER	A	317	33.337	-0.027	-0.795	1.00	33.49
ATOM	83	CA	SER	A	317	33.682	-0.280		1.00	32.88
ATOM	84	CB	SER	A	317	35.165	-0.635	-2.297	1.00	35.77
ATOM	85	OG	SER	A	317	35.825	0.277	-3.154	1.00	42.70
MOTA	86	C	SER	A	317	32,849	-1.396	-2.801	1.00	30.71
ATOM	87	0	SER	A	317	32.279	-1.238	-3.880	1.00	31.14
ATOM	88	N	ALA	A	318	32.792	-2.529	-2.111	1.00	29.51
ATOM	89	CA	ALA	A	318	32.035	-3.676	-2.580	1.00	29.93
ATOM	90	CB	ALA	A	318	32.156	-4.811		1.00	28.56
ATOM	91	C	ALA	Α	318	30,565	-3.305	-2,771	1.00	31.55
ATOM	92	0	ALA	Α	318	29.961	-3.642		1.00	30.64
ATOM	93	N	LEU	Α	319	29.997	-2.614		1.00	34.13
ATOM	94	CA	LEU	A	319	28.597	-2.212		1.00	32.93
ATOM	95	CB	LEU	A	319	28.170	-1.576		1.00	31.15
ATOM	96	CG	LEU	A	319	28.076	-2.555	0.632	1.00	32.27
ATOM	97	CD1	LEU	A	319	27,523	-1.840	1.852	1.00	32.14
ATOM	98	CD2	LEU	A	319	27.194	-3,733	0.243	1.00	31.82
ATOM .	99	C	LEU	A	319	28.340	-1.257		1.00	34.41
ATOM	100	0	LEU	A	319	27.430	-1.475		1.00	35.23
ATOM	101	N	LEU	A	320	29.140	-0.195		1.00	32.53
ATOM	102	CA	LEU	A	320	28.972	0.756		1.00	35.33
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ATOM	103	CB	r mii	70	320	30 053	1 020 4 155		22 52
			LEU	A		30.052	1.839 -4.155	1.00	33.52
MOTA	104	eg eb	LEU	A	320	29.974	2.899 -3.054	1.00	
MOTA	105	CD1	LEU	A	320	31.060	3.940 -3.292	1.00	
MOTA	106	CD2	LEU	A	320	28.611	3.562 -3.044	1.00	31.05
MOTA	107	C	LEU	A	320	29.052	0.040 -5.561	1.00	35.41
ATOM	108	0	LEU	A	320	28.230	0.271 -6.446	1.00	39.16
MOTA	109	N	AASP	Α	321	30.042	-0.833 -5.720	0.50	36.33
MOTA	110	N	BASP	A	321	30.041	-0.839 -5.695	0.50	35.76
MOTA	111	CA	AASP	A	321	30.214	-1.559 -6.977	0.50	37.71
MOTA	112	CA	BASP	A	321	30.258	-1.595 -6.925	0.50	37.11
MOTA	113	CB	AASP	A	321	31,537	-2.334 -6.973	0.50	40.01
ATOM	114	CB	BASP	A	321	31.573	-2.374 -6.826	0,50	39.41
MOTA	115	CG	AASP	A	321	31.694	-3.230 -8.195	0.50	41.93
ATOM	116	CG	BASP	A	321	32.770	-1.562 -7.284	0.50	39.96
ATOM	117	OD1	AASP	A	321	31.523	-2.733 -9.329	0.50	42.11
ATOM	118	OD1	BASP	Α	321	33.312	-1.868 -8.366	0.50	43.41
ATOM	119	OD2	AASP	A	321	31.988	-4.432 -8.022	0.50	42.69
ATOM	120	OD2	BASP	A	321	33.170	-0.622 -6.564	0.50	
MOTA	121	C		A	321				41.33
			AASP			29.069	-2.524 -7.275	0.50	37.19
ATOM	122	С	BASP	A	321	29.123	-2.565 -7.253	0.50	36.68
ATOM	123	0	AASP	A	321	28.820	-2.861 -8.434	0.50	36.87
ATOM	124	0	BASP	A	321	28.934	-2.942 -8.411	0.50	36.08
MOTA	125	Ŋ	ALA	A	322	28.374	-2.968 -6.235	1.00	35.35
ATOM	126	CA	ALA	A	322	27.268		1.00	31.59
ATOM	127	CB	ALA	A	322	27.124	-4.781 -5.175	1.00	30.73
ATOM	128	C	ALA	A	322	25.946	-3.204 -6.709	1.00	30.07
ATOM	129	0	ALA	A	322	24.955	-3.857 -7.036	1.00	26.53
MOTA	130	N	GLU	A	323	25.932	-1.880 -6.596	1.00	27.98
MOTA	131	CA	GLU	A	323	24.713	-1.117 -6.827	1.00	29.88
MOTA	132	CB	GLU	Α	323	25.027	0.380 -6.855	1.00	30.98
MOTA	133	CG	GLU	Α	323	24.870	1.068 -5.509	1,00	31.62
AŢOM	134	CD	GLU	A	323	23.463	0.940 -4.960	1.00	31.98
ATOM	135	OE1	GLU	A	323	23.183	-0.056 -4.257	1.00	33.10
MOTA	136	OE2	GLU	Α	323	22.640	1.836 -5.233	1.00	30.01
ATOM	137	С	GLU	A	323	24.010	-1.515 -8.123	1.00	30.86
ATOM	138	0	GĻU	A	323	24.655	-1.705 -9.151		
ATOM	139	N	PRO	A	324	22.674	-1.659 -8.083	1.00	30.66
ATOM	140	CD	PRO	А	324	21.774	-1.466 -6.935	1.00	31.01
ATOM	141	CA	PRO	A	324	21.935	-2.032 -9.290	1.00	30.29
ATOM	142	СВ	PRO	A	324	20.613	-2.598 -8.760	1.00	31.42
ATOM	143	CG	PRO	A	324	20.626	-2.363 -7.258	1.00	33.66
ATOM	144	C	PRO	A	324	21.717	-0.785-10.138	1.00	27.46
ATOM	145	0	PRO	A	324	21.893	0.332 -9.668	1.00	26.19
ATOM	146	N	PRO	A	325	21,335	-0.959-11.403	1.00	27.80
ATOM	147	CD	PRO	A	325	21.082	-2.198-12.161	1.00	
ATOM	148	CA	PRO						27.35
				A	325	21.125	0.242-12,211	1.00	25.59
ATOM	149	CB	PRO	A	325	21.258	-0.266-13.637	1.00	24.02
ATOM	150	CG	PRO	A	325	20.773	-1.695-13.559	1.00	26.00
ATOM	151	C	PRO	A	325	19.749	0.830-11.954	1.00	23.73
ATOM	152	0	PRO	A	325	18.873	0.165-11.402	1.00	24.83
ATOM	153	N	ILE	A	326	19.571	2.081-12.352	1.00	22.11
ATOM	154	CA	ILE	A	326	18.296	2.762-12.212	1.00	24.01
ATOM	155	CB	ILE	A	326	18.502	4.282-12.133	1.00	25.97
ATOM	156	CG2	ILE	A	326	17,168	4.992-12.286	1.00	20.75
ATOM	157	CG1	ILE	A	326	19.189	4.632-10.805	1.00	29.31
ATOM	158	CD1	ILE	A	326	19.301	6.120-10.525	1.00	32.91
ATOM	159	C	ILE	A	326	17.506	2.408-13.471	1.00	25.72
ATOM	160	Ο,	ILE	A	326	17.906	2.758-14.581	1.00	25.55

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ATOM	161	N	LEU	A	327	16.392	1.703-13.301	1.00	25.57
MOTA	162	CA	LEU	A	327	15.595	1.279-14.439	1.00	23.80
ATOM	163	CB	LEU	A	327	14.872	-0.029-14.104	1.00	23.96
ATOM	164	CG	LEU	A	327	15.778	-1.210-13.728	1.00	19.89
ATOM	165	CD1	LEU	A	327	14.944	-2.462-13.583	1.00	21.19
ATOM	166	CD2	LEU	A	327	16.850	-1.415-14.805	1.00	17.53
MOTA	167	C	LEU	A	327	14.598	2.317-14.935	1.00	27.16
MOTA	168	0	LEU	A	327	14.161	3.202-14.194	1.00	25,98
ATOM	169	N	TYR	A	328	14.251	2.207-16.210	1.00	26.56
atom	170	CA	TYR	A	328	13.303	3.123-16.814	1.00	24.45
ATOM	171	CB	TYR	A	328	13.724	3.465-18.245	1.00	26.72
ATOM	172	CG	TYR	A	328	14.587	4.693-18.314	1.00	27.73
ATOM	173	CD1	TYR	A	328	14.021	5.949-18.518	1.00	28.56
ATOM	174	CE1	TYR	A	328	14.798	7.092-18.509	1.00	29.10
ATOM	175	CD2	TYR	A	328	15.962	4.612-18.110	1,00	26.01
ATOM	176	CE2	TYR	A	328	16.750	5.753-18.098	1.00	30.63
ATOM	177	CZ	TYR	A	328	16.157	6.988-18.297	1.00	30.07
ATOM	178	OH	TYR	A	328	16.917	8.130-18.265	1.00	37.94
ATOM	179	C -	TYR	Α	328	11.923	2.501-16.827	1.00	24.95
ATOM	180	0	TYR	A	328	11.774	1.274-16.846	1.00	27.02
ATOM	181	N	SER	Α	329	10.912	3.358-16.800	1.00	25.60
ATOM	182	CA	SER	A	329	9.533	2.908-16.837	1.00	29.45
ATOM	183	СВ	SER	A	329	8.661	3.858-16.020	1.00	30.80
ATOM	184	OG	SER	A	329	7.297	3.721-16.364	1.00	33.74
ATOM	185	С	SER	A	329	9.129	2.947-18.313	1.00	31.30
ATOM	186	0	SER	A	329	9.908	3.397-19.154	1.00	27.35
MOTA	187	N	GLU	A	330	7.930	2.469-18.629	1.00	32.98
ATOM.	188	CA	GLU	A	330	7.459	2.482-20.007	1.00	35.10
ATOM ATOM	189 190	CB C	GLU	A A	330 330	6.031 7.532	1.968-20.074	1.00	34.67
ATOM	191	0 1	GLU	A	330	7.068	3.924-20.505 4.841-19.826	1.00	40.06 42.65
ATOM	192	Ŋ	TYR	A	331	8.124	4.126-21.681	1.00	41.16
ATOM	193	CA	TYR	A	331	8.263	5.470-22.234	1,00	42.66
ATOM	194	CB	TYR	A	331	9.323	5.482-23.350	1.00	42.54
ATOM	195	CG	TYR	A	331	9.202	4.347-24.345	1.00	38.67
ATOM	196	CD1	TYR	A	331	10.105	3.284-24.334	1.00	34.66
ATOM	197	CE1	TYR	A	331	9.985	2.228-25.233	1.00	34.89
ATOM	198	CD2	TYR	A	331	8.174	4.327-25.287	1.00	37.88
ATOM	199	CE2	TYR	Α	331	8.045	3.276-26.193	1.00	34.65
ATOM	200	CZ	TYR	A	331	8.950	2.232-26.159	1.00	30.73
ATOM	201	OH	TYR	A	331	8.814	1.191-27.042	1.00	30.97
ATOM	202	С	TYR	A	331	6.943	6.043-22.754	1.00	46.24
ATOM	203	0	TYR	A	331	6.018	5.301-23.096	1.00	45.38
ATOM	204	N	ASP	Α	332	6.868	7.372-22.792	1.00	49.11
ATOM	205	CA	ASP	A	332	5.684	8.092-23.262	1.00	52.40
MOTA	206	CB	ASP	Α	332	5.781	8.321-24.772	1.00	52.86
MOTA	207	С	ASP	A	332	4.356	7.410-22.926	1.00	52.90
MOTA	208	0	ASP	A	332	3.561	7.116-23.818	1.00	53.94
ATOM	209	N	PRO	A	333	4.103	7.144-21.632	1.00	53.63
ATOM	210	CD	PRO	A	333	4.962	7.418-20.465	1.00	53.63
ATOM	211	CA	PRO	A	333	2.840	6.497-21.253	1.00	53.55
ATOM	212	CB	PRO	A	333	3.070	6.076-19.802	1.00	53.78
ATOM	213	CG	PRO	A	333	4.101	7.028-19,290	1.00	53.42
ATOM	214	C	PRO	A	333	1.673	7,478-21,398	1.00	52.17
ATOM	215	O M	PRO	A n	333	1.879	8.690-21.395	1.00	51.19
ATOM ATOM	216 217	N CA	THR THR	A A	334 334	0.457 -0.724	6.956-21.532	1.00	52.26
ATOM	217	CB	THR	A	334	-0.724	7.802-21.687 6.949-21.813	1.00 1.00	54.21 53.90
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ATOM 220 GG1 THR A 334 -1.971 6.256-23.065 1.00 53.92 ATOM 221 C THR A 334 -0.864 8.782-20.525 1.00 56.34 ATOM 222 O THR A 334 -0.864 8.782-20.525 1.00 56.34 ATOM 223 N ARG A 335 -0.386 10.002-20.766 1.00 56.44 ATOM 224 CA ARG A 335 -0.377 11.099-39.801 1.00 57.96 ATOM 225 CB ARG A 335 -0.377 11.099-39.801 1.00 57.96 ATOM 226 C ARG A 335 -0.559 12.427-20.531 1.00 60.22 ATOM 227 O ARG A 335 -0.999 10.996-17.475 1.00 60.22 ATOM 228 N PRO A 336 -2.667 11.015-18.889 1.00 52.43 ATOM 229 CD PRO A 336 -3.389 11.17-20.165 1.00 49.68 ATOM 230 CA PRO A 336 -3.587 10.915-7.752 1.00 49.58 ATOM 231 CB PRO A 336 -3.587 10.915-7.752 1.00 49.58 ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 234 O PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 234 O PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.99 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.99 ATOM 237 CB PHE A 337 -0.649 8.017-15.582 1.00 48.66 ATOM 239 CD1 PHE A 337 -0.649 8.017-15.582 1.00 48.67 ATOM 240 CD2 PHE A 337 -0.649 8.017-15.588 1.00 45.61 ATOM 241 CEP PHE A 337 -0.649 8.017-14.805 1.00 48.02 ATOM 242 CEP PHE A 337 -0.649 8.011-14.805 1.00 48.02 ATOM 244 C PRO PHE A 337 -0.649 8.011-14.805 1.00 48.02 ATOM 245 CB PHE A 337 -0.649 8.011-14.805 1.00 48.02 ATOM 246 CR PHE A 337 -0.649 8.011-14.805 1.00 46.51 ATOM 247 CR PHE A 337 -0.649 8.011-14.805 1.00 45.51 ATOM 248 CB PHE A 337 -0.649 8.011-14.805 1.00 45.51 ATOM 249 CB PHE A 337 -0.649 8.011-14.805 1.00 45.51 ATOM 240 CR PHE A 337 -0.649 8.011-14.805 1.00 45.51 ATOM 241 CEP PHE A 337 -0.649 8.011-14.805 1.00 45.51 ATOM 242 CB PHE A 337 -0.649 8.011-14.805 1.00 45.61 ATOM 243 CC PHE A 337 -0.649 8.011-14.805 1.00 45.61 ATOM 245 CB PHE A 337 -0.649 8.011-14.805 1.00 45.61 ATOM 246 N SER A 338 -6.277 3.065 15.554 1.00 45.61 ATOM 247 CA SER A 338 -6.277 3.065 15.554 1.00 45.61 ATOM 248 CB SER A 338 -6.278 3.095 1.00 48.00 48.00 ATOM 249 CB PHE A 337 -0.649 8.011-14.805 1.00 45.61 ATOM 240 CB PHE A 337 -0.											
ATOM 221 C THR A 334 -0.864 8.782-20.525 1.00 \$6.34 ATOM 222 N ARG A 335 -0.386 10.002-20.766 1.00 \$8.24 ATOM 224 CA ARG A 335 -0.377 11.099-19.801 1.00 \$7.96 ATOM 225 CB ARG A 335 -0.559 12.427-20.531 1.00 \$6.22 ATOM 226 C ARG A 335 -0.559 12.427-20.531 1.00 \$6.22 ATOM 227 O ARG A 335 -0.919 10.996-13.627 1.00 \$5.61 ATOM 228 N PRO A 336 -0.919 10.996-13.627 1.00 \$5.61 ATOM 229 CD PRO A 336 -3.389 11.177-20.155 1.00 \$9.06 ATOM 230 CA PRO A 336 -3.389 11.177-20.155 1.00 \$9.06 ATOM 231 CB PRO A 336 -3.587 10.915-17.752 1.00 \$9.58 ATOM 231 CB PRO A 336 -3.587 10.915-17.752 1.00 \$9.58 ATOM 231 CB PRO A 336 -3.598 9.468-17.279 1.00 \$9.58 ATOM 232 CG PRO A 336 -3.698 9.468-17.279 1.00 \$49.25 ATOM 235 N PRE A 337 -3.063 9.170-16.147 1.00 \$47.90 ATOM 235 N PRE A 337 -3.063 9.170-16.147 1.00 \$47.90 ATOM 236 CA PRE A 337 -3.063 9.170-16.147 1.00 \$47.93 ATOM 237 CB PRE A 337 -0.017 9.168-14.368 1.00 \$46.51 ATOM 238 CG PRE A 337 -0.017 9.168-14.368 1.00 \$45.51 ATOM 239 CD1 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 240 CD2 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 240 CD2 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 241 CE1 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 242 CE2 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 244 C CP PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 242 CE2 PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 243 CS PRE A 338 -4.573 6.022-15.080 1.00 \$45.12 ATOM 244 C CB PRE A 337 -0.017 9.168-14.368 1.00 \$45.55 ATOM 245 C PRE A 337 -0.064 9.81.21-15.080 1.00 \$45.12 ATOM 246 C SER A 338 -4.573 6.022-15.080 1.00 \$45.12 ATOM 247 C CB PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 249 C CB PRE A 337 -0.017 9.168-14.368 1.00 \$47.57 ATOM 240 CD2 PRE A 337 -0.017 9.168-14.368 1.00 \$45.05 ATOM 250 C SER A 338 -4.573 6.022-15.080 1.00 \$45.05 ATOM 251 O SER A 338 -4.573 6.022-15.080 1.00 \$45.05 ATOM 252 N GLU A 339 -5.250 8.127-14.671 1.00 \$45.15 ATOM 255 C SER A 338 -6.477 4.554-15.684 1.00 \$45.05 ATOM 266 N SER A 338 -6.378 1.00 \$47.57 1.00 \$45.63 ATOM 267 C SER A 348 -9.578 1.00 \$45.65 1.00 \$45	MOTA				A	334	-1.971	6.256-23.065	1.00	53.92	<u>.</u> .
ATOM 223 N ARG A 335 -0.386 10.002-20.766 1.00 58.24 ATOM 224 CA ARG A 335 -0.386 10.002-20.766 1.00 58.24 ATOM 225 CB ARG A 335 -0.369 12.427-20.551 1.00 65.26 ATOM 226 C ARG A 335 -0.369 12.427-20.551 1.00 65.26 ATOM 227 O ARG A 335 -0.919 10.998-18.627 1.00 56.61 ATOM 228 N PRO A 336 -2.667 11.015-18.899 1.00 52.43 ATOM 229 CD PRO A 336 -3.389 11.117-20.165 1.00 49.56 ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.58 ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 232 CG PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 231 CB PRO A 336 -3.698 9.468-17.279 1.00 49.25 ATOM 232 CG PRO A 336 -3.698 9.468-17.279 1.00 49.25 ATOM 233 C PRO A 336 -3.698 9.468-17.299 1.00 49.25 ATOM 235 N PHE A 337 -3.055 7.821-15.592 1.00 47.93 ATOM 236 CA PHE A 337 -3.055 7.821-15.592 1.00 46.51 ATOM 237 CB PHE A 337 -0.649 8.031-14.805 1.00 46.51 ATOM 238 CG PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 239 CD1 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 240 CD3 PHE A 337 -0.649 8.031-14.805 1.00 46.55 ATOM 24					A		-3.237		1.00	54.15	
ATOM 224 CA ARG A 335 -0.386 10.002-20.766 1.00 58.24 ATOM 225 CB ARG A 335 -0.377 11.099-19.801 1.00 57.96 ATOM 226 C ARG A 335 -0.569 12.427-20.531 1.00 50.22 ATOM 226 C ARG A 335 -0.569 12.427-20.531 1.00 56.61 ATOM 227 O ARG A 335 -1.349 10.996-18.627 1.00 56.61 ATOM 228 N PRO A 336 -2.667 11.015-18.899 1.00 52.43 ATOM 229 CD PRO A 336 -3.587 10.915-17.752 1.00 49.06 ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.58 ATOM 231 CB PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.308 8.644-17.929 1.00 49.25 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 49.06 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 238 CG PHE A 337 -3.063 9.170-16.147 1.00 46.51 ATOM 238 CG PHE A 337 -0.649 8.011-14.805 1.00 46.27 ATOM 230 CD PHE A 337 -0.067 7.732-14.421 1.00 47.57 ATOM 240 CD2 PHE A 337 -0.017 9.168-14.368 1.00 46.55 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 48.12 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.12 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.12 ATOM 243 CZ PHE A 337 -5.250 8.127-14.671 1.00 47.57 ATOM 244 C PHE A 337 -5.250 8.127-14.671 1.00 47.57 ATOM 245 C PHE A 337 -5.250 8.127-14.671 1.00 47.57 ATOM 246 N SER A 338 -6.273 1.386 7.364-15.981 1.00 47.57 ATOM 247 CA SER A 338 -6.273 1.386 7.364-15.981 1.00 47.57 ATOM 248 CB SER A 338 -6.273 1.386 7.002-15.080 1.00 45.12 ATOM 249 CG SER A 338 -6.273 1.386 7.002-15.080 1.00 45.12 ATOM 250 C SER A 338 -6.273 1.386 7.002-15.080 1.00 45.63 ATOM 251 O SER A 338 -6.277 1.351-15.851 1.00 44.49 ATOM 250 C SER A 338 -6.277 1.680-15.854 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.351-15.854 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.351-15.854 1.00 45.63 ATOM 260 C GUU A 339 -7.015 2.521-10.814 1.00 45.66 ATOM 261 N ALA A 340 -5.781 1.662-7.754 1.00 49.29 ATOM 262 C A ALA A 340 -5.792 1.664-15.854 1.00 35.88 ATOM 264 C B ALA A 340 -5.792 1.664-15.854 1.00 35.88 ATOM 2					A				1.00	56.34	
ATOM 224 CA ARG A 335 -0.377 11.099-19.801 1.00 57.96 ATOM 225 CB ARG A 335 -0.569 12.427-20.531 1.00 60.22 ATOM 226 C ARG A 335 -0.919 10.996-18.627 1.00 55.61 ATOM 227 O ARG A 335 -0.919 10.996-18.627 1.00 55.61 ATOM 228 N PRO A 336 -2.667 11.015-18.899 1.00 52.43 ATOM 229 CD PRO A 336 -3.587 10.915-17.752 1.00 49.58 ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.58 ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 232 CG PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 231 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 234 O PRO A 336 -3.698 9.468-17.299 1.00 49.25 ATOM 235 N PHE A 337 -3.053 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.053 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -3.055 7.821-15.582 1.00 46.61 ATOM 238 CG PHE A 337 -0.649 8.011-14.805 1.00 46.55 ATOM 239 CDI PHE A 337 -0.649 8.011-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 0.061 7.113-15.591 1.00 48.06 ATOM 241 CEI PHE A 337 -0.619 7.364-15.938 1.00 46.55 ATOM 242 CE2 PHE A 337 -4.401 7.338-15.701 1.00 48.09 ATOM 244 C PHE A 337 -4.401 7.338-15.071 1.00 48.09 ATOM 245 C PHE A 337 -4.401 7.338-15.071 1.00 48.09 ATOM 246 N SER A 338 -4.573 6.022-15.080 1.00 44.49 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 44.19 ATOM 248 CB SER A 338 -6.227 3.206-15.554 1.00 45.16 ATOM 249 CG SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 251 O SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 252 C C GLU A 339 -7.015 2.521-10.814 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.279 4.491 1.882.100 47.37 ATOM 250 C SER A 338 -6.277 1.00 4.188 1.00 45.63 ATOM 250 C SER A 338 -6.279 4.391-13.88 1.00 47.57 ATOM 250 C SER A 338 -6.279 4.391-13.88 1.00 45.40 ATOM 250 C SER A 338 -6.279 4.391-13.88 1.00 45.40 ATOM 250 C SER A 338 -6.279 4.391-13.88 1.00 45.40 ATOM 250 C SER A 338 -6.277 1.00 6.56-8 4.77 1.00 45.63 ATOM 250 C SER A 338 -6.291 4.391-13.5531 1.00 45.63 ATOM 250 C SER A 341 -7.491 -7.090 -7.511					A				1.00	56.44	
ATOM 225 CB ARG A 335 -0.569 12.427-20.531 1.00 60.70 ATOM 226 C ARG A 335 -0.919 10.996-18.627 1.00 56.61 ATOM 227 O ARG A 335 -0.919 10.908-17.475 1.00 60.70 ATOM 228 N PRO A 336 -2.667 11.015-18.889 1.00 52.43 ATOM 229 CD PRO A 336 -3.389 11.117-20.155 1.00 49.06 ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.06 ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 232 CG PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.340 8.644-17.929 1.00 48.06 ATOM 236 CA PHE A 337 -3.055 7.821-15.502 1.00 46.61 ATOM 237 CB PHE A 337 -2.063 9.170-16.147 1.00 47.93 ATOM 238 CG PHE A 337 -0.649 8.011-14.805 1.00 46.51 ATOM 239 CD PHE A 337 -0.649 8.011-14.805 1.00 46.27 ATOM 240 CD2 PHE A 337 0.061 7.132-15.591 1.00 48.09 ATOM 241 CEI PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CCZ PHE A 337 0.061 7.131-15.591 1.00 48.12 ATOM 243 CZ PHE A 337 -5.250 8.525-15.591 1.00 48.40 ATOM 244 C PHE A 337 -4.401 7.338-15.071 1.00 48.12 ATOM 245 O PHE A 337 -5.250 8.127-14.671 1.00 48.34 ATOM 246 CD PHE A 337 -4.401 7.338-15.071 1.00 48.13 ATOM 247 CA SER A 338 -5.292 4.439-13.488 1.00 47.04 ATOM 248 CB SER A 338 -6.477 4.594-15.684 1.00 47.04 ATOM 249 CG SER A 338 -5.781 5.385-14.578 1.00 45.63 ATOM 250 C SER A 338 -5.781 5.385-14.578 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14.578 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14.578 1.00 47.04 ATOM 250 C SER A 338 -6.477 4.594-15.684 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14.578 1.00 47.04 ATOM 250 C SER A 338 -6.477 4.594-15.684 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14.578 1.00 47.04 ATOM 250 C SER A 338 -6.477 4.594-15.684 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14.591 1.00 45.63 ATOM 250 C SER A 338 -5.292 4.439-13.488 1.00 47.04 ATOM 250 C SER A 338 -5.292 4.439-13.488 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.385-14 5.00 40.04 ATOM 250 C SER A 338 -5.781 5.385-14 5.00 40.0					A		-0.386	•	1.00	58.24	
ATOM 225 C ARG A 335 -1.349 10.996-18.627 1.00 56.1 ATOM 228 N PRO A 336 -0.919 10.908-17.475 1.00 60.70 ATOM 228 N PRO A 336 -2.667 11.015-18.889 1.00 52.43 ATOM 230 CA PRO A 336 -3.389 11.117-20.165 1.00 49.58 ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 49.58 ATOM 231 CB PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 234 C PRO A 336 -3.587 9.468-17.279 1.00 49.58 ATOM 234 C PRO A 336 -3.698 9.468-17.279 1.00 49.58 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -2.063 7.732-14.421 1.00 47.73 ATOM 238 CG PHE A 337 -0.617 7.732-14.421 1.00 47.73 ATOM 239 CDI PHE A 337 -0.617 9.168-14.368 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.017 9.168-14.368 1.00 46.55 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 48.06 ATOM 241 CEI PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 243 CZ PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 45.06 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.305 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 9.429-14.707 1.00 46.15 ATOM 240 CD2 PHE A 337 1.306 PH								11.099-19.801	1.00	57,96	
ATOM 228 N PRO A 336 -2.667 11.015-18.889 1.00 60.70 ATOM 228 N PRO A 336 -3.587 11.015-18.889 1.00 52.43 ATOM 229 CD PRO A 336 -3.587 10.915-17.752 1.00 49.06 ATOM 231 CB PRO A 336 -3.587 10.915-17.752 1.00 49.06 ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 48.66 ATOM 232 CG PRO A 336 -4.911 11.456-18.302 1.00 48.66 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 234 O PRO A 336 -4.4911 11.456-18.302 1.00 49.25 ATOM 233 C PRO A 336 -4.491 11.456-18.302 1.00 49.25 ATOM 234 O PRO A 336 -4.491 11.456-11.00 40.92 ATOM 235 N PHE A 337 -3.065 7.821-15.582 1.00 46.61 ATOM 236 CA PHE A 337 -3.065 7.821-15.582 1.00 46.61 ATOM 237 CB PHE A 337 -0.649 8.011-14.805 1.00 46.51 ATOM 238 CG PHE A 337 -0.649 8.011-14.805 1.00 46.57 ATOM 239 CD1 PHE A 337 -0.649 8.011-14.505 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.649 8.011-14.505 1.00 46.55 ATOM 240 CD2 PHE A 337 0.061 7.113-15.591 1.00 46.55 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 -4.401 7.338-15.071 1.00 46.51 ATOM 244 C PHE A 337 -4.401 7.338-15.071 1.00 46.15 ATOM 245 C PHE A 337 -4.401 7.338-15.071 1.00 48.40 ATOM 240 CD2 PHE A 337 -5.250 8.127-14.671 1.00 45.12 ATOM 246 N SER A 338 -4.573 6.022-15.080 1.00 45.06 ATOM 247 CA SER A 338 -5.781 5.85-14.4571 1.00 45.12 ATOM 246 N SER A 338 -4.573 6.022-15.080 1.00 45.06 ATOM 247 CA SER A 338 -6.277 3.206-15.554 1.00 45.12 ATOM 249 OG SER A 338 -6.277 3.206-15.554 1.00 45.13 ATOM 249 OG SER A 338 -6.277 3.206-15.554 1.00 45.13 ATOM 250 C SER A 338 -6.277 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 338 -6.277 1.00 45.63 ATOM 250 C SER A 341 -2.211 4.010-16.864 1.					A		-0.569	12.427-20.531	1.00	60.22	
ATOM 228 N PRO A 336 -2.667 11.015-18.889 1.00 52.43 ATOM 229 CD PRO A 336 -3.389 11.117-20.165 1.00 49.06 ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.58 ATOM 231 CB PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 231 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -3.698 9.468-17.279 1.00 49.25 ATOM 234 O PRO A 336 -3.698 9.468-17.279 1.00 49.25 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -0.064 9.011-14.805 1.00 46.51 ATOM 239 CD1 PHE A 337 -0.064 9.011-14.805 1.00 46.55 ATOM 239 CD1 PHE A 337 -0.017 9.168-14.368 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.017 9.168-14.368 1.00 46.55 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 241 CE1 PHE A 337 1.306 7.364-15.938 1.00 46.55 ATOM 240 CD2 PHE A 337 -0.017 9.168-15.591 1.00 48.09 ATOM 241 CE1 PHE A 337 -0.017 9.168-15.591 1.00 48.09 ATOM 242 CE2 PHE A 337 -4.401 7.338-15.591 1.00 47.57 ATOM 243 CZ PHE A 337 -4.401 7.338-15.591 1.00 47.57 ATOM 243 CZ PHE A 337 -4.401 7.338-15.591 1.00 47.57 ATOM 244 C PHE A 337 -5.250 8.127-14.671 1.00 47.57 ATOM 245 C PHE A 337 -5.250 8.127-14.671 1.00 45.12 ATOM 245 C PHE A 337 -5.250 8.127-14.671 1.00 45.12 ATOM 245 C PHE A 337 -5.250 8.127-14.671 1.00 45.12 ATOM 245 C PHE A 338 -5.292 4.439-13.488 1.00 47.04 ATOM 250 C SER A 338 -5.781 5.955-1.495 1.00 45.12 ATOM 250 C SER A 338 -5.781 5.955-1.495 1.00 45.12 ATOM 250 C SER A 338 -5.781 5.955-1.495 1.00 45.66 ATOM 250 C SER A 338 -6.277 3.206-15.554 1.00 45.66 ATOM 255 CG GLU A 339 -6.627 3.206-15.554 1.00 45.66 ATOM 255 CG GLU A 339 -6.627 3.206-15.554 1.00 45.66 ATOM 255 CG GLU A 339 -6.627 3.206-15.554 1.00 45.66 ATOM 255 CG GLU A 339 -6.627 3.206-15.554 1.00 45.66 ATOM 255 CG GLU A 339 -7.717 1.052 -8.535 1.00 47.56 ATOM 256 CD GLU A 339 -7.717 1.052 -8.535 1.00 47.56 ATOM 256 CD GLU A 339 -7.717 1.052 -8.535 1.00 47.56 ATOM 256 CD GLU A 339 -7.810 2.625 -7.7					A			10.996-18.627	1.00	56.61	
ATOM 229 CD PRO A 336 -3.389 11.117-20.165 1.00 49.05 ATOM 221 CB PRO A 336 -3.587 10.915-17.752 1.00 49.05 ATOM 221 CB PRO A 336 -4.911 11.486-18.302 1.00 48.66 ATOM 232 CG PRO A 336 -4.911 11.486-18.302 1.00 48.66 ATOM 233 C PRO A 336 -4.94 11 11.4867-18.727 1.00 48.66 ATOM 233 C PRO A 336 -4.940 8.644-17.292 1.00 48.06 ATOM 234 O PRO A 336 -4.340 8.644-17.929 1.00 48.06 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 235 CD PHE A 337 -0.0649 8.011-14.805 1.00 46.61 ATOM 237 CB PHE A 337 -0.0649 8.011-15.592 1.00 46.61 ATOM 239 CD PHE A 337 -0.0649 8.011-15.592 1.00 46.55 ATOM 240 CD PHE A 337 -0.017 9.168-14.368 1.00 46.55 ATOM 240 CD PHE A 337 0.061 7.113-15.591 1.00 48.12 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 2.009 8.525-15.495 1.00 47.57 ATOM 243 CZ PHE A 337 -4.401 7.338-15.591 1.00 47.57 ATOM 244 CP PHE A 337 -4.401 7.338-15.591 1.00 46.15 ATOM 245 CP PHE A 337 -4.401 7.338-15.591 1.00 46.15 ATOM 245 CP PHE A 337 -2.069 8.525-15.495 1.00 46.15 ATOM 245 CP PHE A 337 -4.401 7.338-15.071 1.00 46.15 ATOM 245 CP PHE A 337 -4.401 7.338-15.071 1.00 46.15 ATOM 245 CP PHE A 337 -4.401 7.338-15.591 1.00 47.57 ATOM 245 CP PHE A 337 -5.250 8.127-14.671 1.00 46.15 ATOM 245 CP PHE A 337 -4.401 7.338-15.071 1.00 46.15 ATOM 245 CP PHE A 337 -5.250 8.127-14.671 1.00 45.06 ATOM 247 CA SER A 338 -4.573 6.022-15.080 1.00 47.08 ATOM 247 CA SER A 338 -4.573 6.022-15.080 1.00 45.06 ATOM 247 CA SER A 338 -4.573 6.022-15.080 1.00 45.06 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.12 ATOM 248 CB SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 247 CA SER A 338 -6.27									1.00	60.70	
ATOM 230 CA PRO A 336 -3.587 10.915-17.752 1.00 49.56 ATOM 231 CB PRO A 336 -4.691 11.456-18.302 1.00 48.66 ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.340 8.644-17.929 1.00 48.06 ATOM 235 N PHE A 337 -3.698 9.468-17.279 1.00 48.06 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -0.649 8.011-14.805 1.00 46.61 ATOM 239 CD1 PHE A 337 -0.649 8.011-14.805 1.00 46.27 ATOM 240 CD2 PHE A 337 0.061 7.131-15.591 1.00 48.12 ATOM 241 CEI PHE A 337 1.305 9.429-14.707 1.00 48.12 ATOM 242 CE2 PHE A 337 1.306 9.429-14.707 1.00 48.12 ATOM 243 CZ PHE A 337 2.009 8.525-15.495 1.00 46.15 ATOM 244 C PHE A 337 -4.401 7.338-15.071 1.00 48.40 ATOM 245 C PHE A 337 -5.250 8.127-14.671 1.00 48.34 ATOM 246 N SER A 338 -4.573 6.022-15.080 1.00 45.12 ATOM 247 CA SER A 338 -5.781 5.385-14.578 1.00 45.12 ATOM 248 CB SER A 338 -6.477 4.599-15.644 1.00 45.12 ATOM 249 OG SER A 338 -6.477 4.599-15.684 1.00 45.06 ATOM 247 CA SER A 338 -6.227 3.206-15.554 1.00 45.13 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.13 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-12.576 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-12.576 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-12.576 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.5292 4.499-13.488 1.00 47.04 ATOM 250 C SER A 338 -6.5292 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.5292 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.5292 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.5292 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.206 3.916-12.676 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-13.387 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-13.387 1.00 45.63 ATOM 250 C SER A 341 -3.231 3.454-16.154 1.00 3								11.015-18,889	1.00	52.43	
ATOM 231 CB PRO A 336 -4.911 11.456-18.302 1.00 48.66 ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 49.25 ATOM 233 C PRO A 336 -3.698 9.468-17.279 1.00 49.25 ATOM 234 O PRO A 336 -3.698 9.468-17.279 1.00 48.06 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -2.063 7.732-14.421 1.00 47.73 ATOM 238 CG PHE A 337 -0.649 8.011-14.805 1.00 46.51 ATOM 239 CD1 PHE A 337 0.061 7.113-15.591 1.00 46.55 ATOM 240 CD2 PHE A 337 0.061 7.113-15.591 1.00 48.02 ATOM 241 CE1 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 242 CE2 PHE A 337 1.305 9.429-14.707 1.00 48.09 ATOM 244 C PHE A 337 1.306 7.364-15.938 1.00 47.57 ATOM 244 C PHE A 337 1.306 7.364-15.938 1.00 47.57 ATOM 245 O PHE A 337 -5.250 8.127-14.671 1.00 48.34 ATOM 246 N SER A 338 -4.578 6.022-15.080 1.00 45.06 ATOM 247 CA SER A 338 -5.781 5.385-14.578 1.00 45.12 ATOM 248 CB SER A 338 -5.781 5.385-14.578 1.00 45.78 ATOM 248 CB SER A 338 -5.781 5.385-14.578 1.00 45.78 ATOM 251 O SER A 338 -5.292 4.499-13.488 1.00 47.04 ATOM 252 N GLU A 339 -5.802 3.012-11.608 1.00 45.63 ATOM 252 N GLU A 339 -6.207 3.206-15.554 1.00 45.63 ATOM 255 CG GLU A 339 -7.015 2.521-10.814 1.00 45.63 ATOM 256 C SER A 338 -6.477 4.594-15.684 1.00 44.08 ATOM 257 N GLU A 339 -7.015 2.521-10.814 1.00 45.63 ATOM 258 OC GLU A 339 -7.015 2.521-10.814 1.00 45.63 ATOM 259 C GLU A 339 -7.015 2.521-10.814 1.00 45.63 ATOM 259 C GLU A 339 -7.015 2.521-10.814 1.00 49.29 ATOM 250 C SER A 338 -6.207 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.207 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.63 ATOM 250 C SER A 338 -5.781 5.385-14.579 1.00 45.66 ATOM 250 C SER A 338 -5.781 5.385-14.579 1.00 45.66 ATOM 250 C SER A 338 -5.292 4.499-313.488 1.00 47.04 ATOM 250 C SER A 338 -5.292 4.499-313.488 1.00 47.04 ATOM 250 C SER A 338 -5.292 4.499-313.488 1.00 47.56 ATOM 250 C GLU A 339 -7.015 2.521-10.00 40.03 ATOM 250 C SER A 334 -5.781 1.00 40.25 7.00 40.03 ATOM 250 C GLU A 339 -7.015 2.521-10.00 40.03 ATOM 250 C SER								11.117-20.165	1.00	49.06	
ATOM 232 CG PRO A 336 -4.645 11.809-19.760 1.00 51.33 ATOM 233 C PRO A 336 -4.340 8.644-17.929 1.00 48.06 ATOM 234 O PRO A 336 -4.340 8.644-17.929 1.00 48.06 ATOM 235 N PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 236 CA PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -3.063 9.170-16.147 1.00 47.90 ATOM 237 CB PHE A 337 -0.649 8.011-14.805 1.00 46.61 ATOM 239 CD1 PHE A 337 -0.649 8.011-14.805 1.00 46.55 ATOM 239 CD1 PHE A 337 -0.649 8.011-14.805 1.00 46.55 ATOM 240 CD2 PHE A 337 0.061 7.113-15.591 1.00 48.12 ATOM 241 CEI PHE A 337 1.305 9.429-14.707 1.00 48.12 ATOM 241 CEI PHE A 337 1.306 7.364-15.938 1.00 47.57 ATOM 242 CE2 PHE A 337 1.386 7.364-15.938 1.00 47.57 ATOM 243 CZ PHE A 337 2.009 8.525-15.495 1.00 48.40 ATOM 244 C PHE A 337 -4.401 7.338-15.071 1.00 48.40 ATOM 244 C PHE A 337 -5.250 8.127-14.671 1.00 48.34 ATOM 245 O PHE A 337 -4.401 7.338-15.071 1.00 48.34 ATOM 246 N SER A 338 -4.573 6.022-15.080 1.00 45.12 ATOM 247 CA SER A 338 -5.781 5.385-14.578 1.00 44.49 ATOM 249 OG SER A 338 -5.781 5.385-14.578 1.00 44.49 ATOM 249 OG SER A 338 -6.227 3.206-15.554 1.00 45.78 ATOM 249 OG SER A 338 -6.227 3.206-15.554 1.00 45.78 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.66 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 ATOM 250 C SER A 338 -6.227 3.206-15.554 1.00 45.40 A									1.00	49.58	
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ATOM 269 OG SER A 341 -2.211 4.130-16.864 1.00 36.09 ATOM 270 C SER A 341 -1.480 2.376-14.691 1.00 35.63 ATOM 271 O SER A 341 -0.389 1.913-15.038 1.00 33.20 ATOM 272 N MET A 342 -1.626 3.115-13.595 1.00 35.92 ATOM 273 CA MET A 342 -0.498 3.396-12.708 1.00 35.88 ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02	MOTA	268	CB	SER	Α	341	-3.231	3.454-16.154			
ATOM 270 C SER A 341 -1.480 2.376-14.691 1.00 35.63 ATOM 271 O SER A 341 -0.389 1.913-15.038 1.00 33.20 ATOM 272 N MET A 342 -1.626 3.115-13.595 1.00 35.92 ATOM 273 CA MET A 342 -0.498 3.396-12.708 1.00 35.88 ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02	MOTA	269	OG	SER	Α	341	-2.211	4.130-16.864			
ATOM 271 O SER A 341 -0.389 1.913-15.038 1.00 33.20 ATOM 272 N MET A 342 -1.626 3.115-13.595 1.00 35.92 ATOM 273 CA MET A 342 -0.498 3.396-12.708 1.00 35.88 ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02	ATOM	270	C	SER	Α	341					
ATOM 272 N MET A 342 -1.626 3.115-13.595 1.00 35.92 ATOM 273 CA MET A 342 -0.498 3.396-12.708 1.00 35.88 ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02	MOTA	271	0	SER	Α						
ATOM 273 CA MET A 342 -0.498 3.396-12.708 1.00 35.88 ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02	MOTA	272	N	MET	A	342	-1.626				
ATOM 274 CB MET A 342 -0.912 4.396-11.623 1.00 35.96 ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02		273	CA	MET	A	342	-0.498				
ATOM 275 CG MET A 342 0.241 5.218-11.059 1.00 38.02			CB	MET	A	342	-0.912				
			CG		A	342	0.241	5.218-11.059	1.00		
	MOTA	276	SD	MET	Α	342	-0.308	6.374 -9.780	1.00		

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\ TOM	277	CE	MET	A	342	0.626	7.815-10.205	3 00	43 40
mota Mota	277	C	MET	A	342	-0.011	2.100-12.059	1.00	42.49 34.17
ATOM	279	Ö.	MET	A	342	1.195	1.880-11.909	1.00	33.40
TOM	280	N	MET	A	343	-0.957	1.243-11.687	1.00	29.95
TOM	281	CA	MET	A	343	-0.640	-0.034-11.062	1.00	31.96
TOM	282	CB	MET	A	343	-1.921	-0.810-10.751	1.00	31.70
TOM	283	CG	MET	A	343	-2.667	-0.337 -9.502	1.00	37.13
TOM	284	SD	MET	A	343	-1.749	-0.507 -7.940	1.00	36.00
TOM	285	CE	MET	A	343	-1.468	-2.299 -7.886	1.00	32.14
MOT	286	С	MET	A	343	0.234	-0.875-11.979	1.00	31,72
TOM	287	0	MET	A	343	1.159	-1.558-11.527	1.00	30.26
TOM	288	N	GLY	Α	344	-0.069	-0.823-13.272	1.00	29.04
TOM	289	ÇA	GLY	A	344	0.688	-1.591-14.242	1.00	24.94
TOM	290	C	GLY	A	344	2.104	-1.085-14.396	1.00	26.01
TOM	291	0	GĽX	A	344	3.046	-1.873-14.463	1.00	28.72
TOM	292	N	LEU	A	345	2.257	0.232-14.471	1.00	26.97
TOM	293	CA	LEU	A	345	3.576	0.839-14.608	1.00	31.15
rom	294	CB	LEU	A	345	3.459	2.361-14.753	1.00	30.06
TOM	295	CG	LEU	A	345	2.765	2.924-15.995	1.00	33.50
rom	296	CD1	LEU	A	345	2.901	4.439-15.999	1.00	33.52
MOT	297	CD2	LEU	A	345	3.379	2.324-17.257	1.00	33.22
rom	298	C	LEU	A	345	4.433	0.534-13.383	1.00	30.31
MOT	299 300	O N	LEU	A • A	345 346	5.564.		1.00	32.80
MO7	300 301	N CA	LEU LEU	A A	346 346	3,884 4.595	0.813-12.205 0.596-10.947	1,00	27.83
OM	302	CB	LEU	A	346	3.729	1.063 -9.783	1.00	26.19 24.51
OM	303	CG	LEU	A	346	3.483	2.569 -9.682	1.00	26.33
MO	304	CD1	LEU	A	346	2.623	2.844 -8.463	1.00	27.33
OM	305	CD2	LEU	A	346	4.809	3.317 -9.587	1.00	24.89
OM	306	C	LEU	A	346	5.032	-0.848-10,707	1.00	25.72
MOT	307	ō	LEU	A	346	6.181	-1.102-10.345	1.00	29.86
OM	308	N	THR	A	347	4.117	-1.793-10.891	1.00	23.80
MO	309	CA	THR	A	347	4.436	-3.196-10.674	1.00	23.91
MOT	310	CB	THR	A	347	3,164	-4.058-10.641	1.00	26.39
rom	311	OG1	THR	A	347	2.421	-3.860-11.849	1.00	24.57
TOM	312	CG2	THR	A	347	2.301	-3.682 -9.444	1.00	23.98
rom	313	C	THR	A	347	5.366	-3.734-11.756	1,00	26.17
MOT	314	0	THR	A	347	6.176	-4.622-11.496	1.00	27.44
TOM	315	N	ASN	A	348	5.242	-3.197-12.970	1,00	25.48
rom	316	CA	ASN	A	348	6.092	-3.617-14,082	1.00	23.77
MOT	317	CB	ASN	A	348	5.657	-2.926-15.385	1.00	24.59
MOT	318	CG	ASN	A	348	6.522	-3.302-16.571	1.00	29.93
MOT	319	OD1	ASN	A	348	7.616	-2.799-16.771	1.00	24,81
rom rom	320	ND2	ASN	A	348	6.010	-4.236-17.391	1,00	32.61
OM	321 322	С О	asn Asn	A	348	7.532	-3.229-13.741	1.00	22.82
'OM	323	Ŋ	ASN LEU	A A	348 349	8.453 7. 7 11	-4.027-13.870	1.00	18,83
OM	323 324	CA.	LEU	A A	349 349	9.030	-1.993-13.288	1,00	22.58
OM	325	CB	LEU	A	349 349	8.929	-1.507-12.914 -0.028-12.536	1.00	21.85 22.00
'OM	325	CG	LEU	A	349	10,155	0.673-11.953	1.00	23.64
'OM	327	CD1	LEU	A	349	11.224	0.826-13.017	1.00	19.35
'OM	328	CD2	LEU	A	349	9.726	2.040-11.415	1.00	21.97
OM	329	C	LEU	A	349	9.564	-2.335-11.734	1.00	22.94
COM	330	0	LEU	A	349	10.724	-2.749-11.717	1.00	23.97
rom	331	И	ALA	A	350	8.705	-2.591-10.756	1.00	21.67
TOM	332	CA	ALA	A	350	9.113	-3.356 -9.586	1.00	21.83
TOM	333	CB	ALA	A	350	7.963	-3.441 -8.593	1.00	18.95
rom	334	C	ALA	A	350	9.568	-4.757 -9.985	1.00	21.90

MOTA	335	0	ALA	A	350	10.625	-5.221 -9.554	1.00	24.15
ATOM	336	N	asp	A	351	8.767	-5.423-10.810	1.00	23.24
MOTA	337	CA	asp	A	351	9.093	-6.772-11.259	1.00	25.87
ATOM	338	CB	ASP	A	351	8.028	-7.274-12.239	1.00	27.03
ATOM	339	CG	ASP	A	351	8.103	-8.772-12.458	1.00	31.64
ATOM	340	OD1	ASP	A	351	8.217	-9.196-13.628	1.00	35.06
ATOM	341	QD2	ASP	A	351	8.049	-9.525-11.464	1.00	36.86
ATOM	342	C	ASP	A ·	351	10.469	-6.825-11.912	1.00	22.36
ATOM	343	Õ	ASP	A	351	11.219	-7.773-11.702	1.00	25.15
ATOM	344	N	ARG	A	352	10.810	-5.808-12.697	1.00	23.58
ATOM	345	CA	ARG	A	352	12.115	-5.787-13.347	1.00	21.07
ATOM	346	CB	ARG	A	352	12.120	-4.785-14.507	1.00	21.02
ATOM	347	CG	ARG	A	352	11.539	-5.352-15.797	1.00	20.44
ATOM	348	CD	ARG	A	352	11.554	-4.319-16.915	1.00	20.43
ATOM	349	NE	ARG	A	352	10.592	-3.245-16.687	1.00	19.85
MOTA	350	CZ	ARG	A	352	10,910	-1.954-16.641	1.00	19.69
ATOM	351	NH1	ARG	A	352	12.172	-1.564-16,813	1.00	17.36
ATOM	352	NH2	ARG	A	352	9,962	-1.049-16.441	1.00	21.88
ATOM	353	C	ARG	A	352	13.223	-5.442-12.350	1.60	22.11
ATOM	354	0	ARG	A	352	14.346	-5.945-12.454	1.00	24.13
ATOM	355	N	GLU	A	353	12.909	-4.587-11.383	1.00	18.66
ATOM	356	CA	GLU	A	3 \$ 3	13.888	-4.206-10,376	1.00	19.08
MOTA	357	CB	GLU	A	353	13.317	-3.102 -9.483	1.00	21.62
MOTA	358	CG	GLU	A	353	13.295	-1.718-10.114	1.00	20.97
ATOM	359	CD	GLU	A	353	12.832	-0.648 -9.129	1.00	23.84
ATOM	360	OE1	GLU	A	353	11.611	-0.531 -8.926	1.00	24.76
ATOM	361	OE2	GLU	A	353	13.686	0.066 -8.557	1.00	24.95
ATOM	362	С	GLU	A	353	14.246	-5.423 -9.512	1.00	20.14
ATOM	363	0	GLU	A	353	15.398	-5.600 -9.104	1.00	19.40
ATOM	364	N	LEU	A	354	13.246	-6.257 -9.235	1.00	19.54
ATOM	365	CA	LEU	A	354	13.434	-7.452 -8,415	1.00	21.77
ATOM	366	CB	LEU	A	354	12.107	-8.209 -8.270	1.00	23.09
ATOM	367	CG	LEU	A	354	11.160	-7.606 -7.223	1.00	25.00
ATOM	368	CD1	LEU	A	354	9.720	-8.013 -7.510	1.00	23.49
MOTA	369	CD2	LEU	A	354	11.584	-8.069 -5.839	1.00	23.31
ATOM	370	C	LEU	A	354	14.500	-8.386 -8.981	1.00	23.21
ATOM	371	0	LEU	A	354	15.255	-9.007 -8.234	1.00	22.44
ATOM	372	N	VAL	A	355	14.560	-8.490-10.302	1.00	22,52
ATOM	373	CA	VAL	A	355	15.551	-9.343-10.935	1.00	21.66
ATOM	374	ÇB	VAL	A	355	15.353	-9.365-12.466	1,00	24.35
ATOM	375	CG1	VAL	A	355		-10.214-13.119	1.00	28.16
ATOM	376	CG2	VAL	A	355	13.957	-9.886-12.798	1.00	21.59
ATOM	377	c	VAL	A	355	16.944	-8.811-10.606	1.00	23.74
ATOM	378	0	VAL	A	355	17.857	-9.581-10.291	1.00	23.51
ATOM	379	N	HIS	A	356	17.105	-7.489-10.669	1.00	21.27
MOTA	380	CA	HIS	A	356	18.392	-6.861-10.369	1.00	21.31
ATOM	381	CB	HIS	A	356	18.384	-5.390-10.811	1.00	19.87
ATOM	382	CG	HIS	A	356	18.494	-5.205-12.295	1.00	21.77
ATOM	383	CD2	HIS	A	356	17.543	-5.048-13.248	1.00	21.66
ATOM		ND1	HIS		356	19.704	-5.177-12.955	1.00	21.11
ATOM	384 385	CE1	HIS	A.	356		-5.011-14.249	1.00	24.96
				A n					
ATOM	386	NE2	HIS	A	356	18.192	-4.931-14.455	1.00	18.37
ATOM	387	C	HIS	A	356	18.702	-6.947 -8.875	1.00	21.41
ATOM	388	0	HIS	A	356	19.864	-7.111 -8.465	1.00	21.88
ATOM	389	N	MET	A	357	17.660	-6.843 -8.058	1.00	21.84
ATOM	390	CA	MET	Α .	357	17.837	-6.906 -6.610	1.00	21.51
ATOM	391	CB	MET	A	357	16.503	-6.668 -5.898	1.00	17.60
ATOM	392	CG	MET	A	357	16.629	-6.579 - 4.369	1.00	19.36

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	ATOM	393	SD	MET	A	357	15.051	-6.755 -3.531	1.00	23.64 -
	MOTA	394	CE	MET	A	357	14.189	-5.332 -4.163	1.00	23.13
•	MOTA	395	č	MET	A	357	18.411	-8.259 -6.192	1.00	23.69
	ATOM	396	o	MET	·A	357	19.337	-8.328 -5.389	1.00	24.41
	ATOM	397	N	ILE	A	358	17.856	-9.331 -6.746	1.00	27.14
	ATOM	398	CA	ILE	A	358	18.314		1.00	28.79
	atom	399	CB	ILE	A	358	17.529	-11.725 -7.232	1.00	32.42
	MOTA	400	CG2	ILE	A	358	18.267	-13.064 -7.220	1.00	32.77
	ATOM	401	CG1	ILE	A	358	16.125	-11.880 -6.644	1.00	31.94
	MOŢA	402	CD1	ILE	A	358	15.062	-12.196 -7.680	1.00	34.85
	MOTA	403	C	ILE	A.	358		-10.802 -6.728	1.00	28.75
	ATOM	404	0	ILE	A	358		-11.305 -5.912	1.00	31.60
	ATOM	405	N	asn	A	359		-10.325 -7.897	1.00	27.91
	ATOM	406	CA	ASN	A	359		-10.401 -8.293	1.00	29.16
	ATOM	407	CB	asn	A	359		-10.172 -9.801	1.00	31.88
	MOTA	408	CG	ASN	A	359		-11.381-10.599	1.00	39.34
	ATOM ATOM	409 410	OD1 ND2	asn Asn	A A	359 · 359	21.916	-12.422-10.612 -11.255-11.253	1.00	41.27
•	ATOM	411	C C	asn Asn	A. A	359 359	20.102	-11.255-11.253 -9.436 -7.510	1.00	38.58 30.75
	ATOM	412	0	ASN	A	359	23.686	-9.629 -7.412	1.00	33.35
	ATOM	413	Ŋ	TRP	A	360	21.872	-8.400 -6.940	1.00	30.07
	ATOM	414	CA	TRP	A	360	22.634	-7.451 -6.132	1.00	27.87
	ATOM	415	CB	TRP	A	360	21.849	-6.150 -5.948	1.00	24.80
	ATOM	416	CG	TRP	Α	360	22.196	-5.392 -4.691	1.00	23.04
	ATOM	417	CD2	TRP	A	360	21.501	-5.443 -3.438	1.00	19.83
	ATOM	418	CE2	TRP	A	360	22,147	-4.543 -2.564	1.00	22.31
	ATOM	419	CE3	TRP	A,	360	20.392	-6.165 -2.972	1.00	20.09
	ATOM	420	CD1	TRP	A	360	23.212	-4.488 -4.529	1.00	18.99
	ATOM	421	NE1	TRP	A	360	23.187	-3.974 -3.255	1.00	21.17
	ATOM	422	CZ2	TRP	A	·360	21.721	-4.340 -1.243	1.00	20.43
•	ATOM ATOM	423 424	CZ3 CH2	TRP TRP	A A	360 360	19.968 20.635	-5.965 -1.661	1.00	20.12
	ATOM	425	C	TRP	A	360	20.833	-5.057 -0.812 -8.099 -4.766	1.00 1.00	18.54 24.88
	ATOM	426	Ô	TRP	A	360	23.978	-7.980 -4.198	1.00	25.00
	ATOM	427	N	ALA	A	361	21.879	-8.789 -4.252	1.00	24.08
	ATOM	428	CA	ALA	A	361	21,972		1.00	26.06
	ATOM	429	CB	ALA	A.	361		-10.203 -2.672	1.00	20.27
	MOTA	430	С	ALA	A	361	23.161	-10.433 -2.897	1.00	28.44
	MOTA	431	0	ALA	A	361	23.843	-10.531 -1.876	1.00	28.95
	ATOM	432	N	LYS	A	362		-11.144 -3.992	1.00	31.41
	ATOM	433	CA	LYS	A	362		-12.097 -4.047	1.00	
	ATOM	434	CB	LYS	A	362		-12.824 -5.390	1.00	34.81
	MOTA	435	CG	LYS	A	362			1.00	36.27
	ATOM	436	CD	LYS	A	362		-14.178 -7.167	1.00	38.30
	ATOM ATOM	437 438	CE MZ	LYS	A n	362 362		-15.193 -7.472	1.00	40.94
	ATOM	439	NZ C	LYS LYS	A A	362		-15.322 -8.937 -11.351 -3.893	1.00	42.49
	ATOM	440	0	LYS	A	362		-11.351 -3.595	1.00	34.17 35.40
	ATOM	441	N	AARG	À	363		-10.059 -4.095	0.50	34.23
	ATOM	442	N	BARG		363		-10.059 -4.095	0.50	34.03
	ATOM	443	CA	AARG		363	27.035	-9.254 -3.987	0.50	33.25
	ATOM	444	CA	BARG		363	27.035	-9.254 -3.987	0.50	32.83
	ATOM	445	ÇВ	AARG		363	27.031	-8.153 -5.044	0.50	34.67
	ATOM	446	CB	BARG		363	27.031	-8.153 -5.045	0.50	34.20
	MOTA	447	CG	AARG		363	26.933	-8.654 -6.478	0.50	36.32
	ATOM	448	CG	BARG		363	26.930	-8.654 -6.480	0.50	35.56
	ATOM	449	CD	AARG		363	27.745	-7.775 -7.415	0.50	38.39
	ATOM	450	CD	BARG	A	363	27.752	-7.781 -7.414	0.50	37.18

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	MOTA	451	NE	AARG	A,	363	29.171	-7.793	-7.091	0.50	39.98
	atom	452	NE	BARG	A	363	27.195		-8.762	0.50	37.39
	ATOM	453	CZ	AARG	A	363	30.086		-7.692	0.50	40.54
	ATOM	454	CZ	BARG	A	363	27.905		-9.855	0,50	40.02
	ATOM	455	NH1	AARG		363	29.735	-6.218	-8.675	0.50	38.13
	ATOM	456	NH1	BARG		363	29.205		-9.761	0,50	40.42
	MOTA	457	NH2	AARG	A	363	31.358	-7,123	-7.326	0.50	43.19
	MOTA	458	NHS	BARG	A	363	27.311	-7.436	-11,041	0.50	38.91
	MOTA	459	C	AARG	A	363	27.207	-8.630	-2.610	0.50	33.28
	ATOM	460	C	BARG	A	363	27.207		-2.610	0.50	32.81
	ATOM	461	0	AARG	A	363	28.223		-2.344	0.50	34.18
	ATOM	462	0	BARG	A	363	28.223		-2,345	0.50	33.43
	AŢOM	463	N	VAL	Α	364	26.215		-1.740	1.00	33.12
	MOTA	464	CA	VAL	A	364	26.288		-0.389	1.00	33.63
	MOTA	465	CB	VAL	A	364	24.898			1.00	34.97
	MOTA	466	CG1	VAL	A	364	25.036			1.00	35.44
	ATOM	467	CG2	VAL	A	364	23.946		-0.532	1.00	36.69
	ATOM	468	С	VAL	A	364	27.184		0.428	1.00	34.27
	ATOM	469	0	VAL	A	364	26.878		0.603	1.00	34.95
	ATOM	470	N	PŖO	A	365	28.306	-8.626	0.935	1.00	36.08
	ATOM	471	CD	PRO	A	365	28.775		0.793	1.00	34.84
	ATOM	472	CA	PRO	A	365	29.231	-9.442	1.733	1.00	37.82
	MOTA	473	CB	PRO	A	365	30.110	-8.408	2.430	1.00	34.31
	MOTA	474	CG	PRO	A	365	30.127	-7.247	1.475	1.00	37.77
	MOTA	475	C	PRO	A	365	28.538		2.720	1.00	37.61
	ATOM	476	0	PRO	A	365	27.692		3.507	1.00	37.74
	ATOM	477	N	GLY	A	366	28.890		2.654	1.00	39.04
	ATOM	478	CA.	GLY	A	366	28.307		3.554	1.00	38.27
	MOTA MOTA	479	C ·	GLY	A	366	26.991		3.138	1.00	39.32
	ATOM	480 481	O N	GLY	A n	366 367	26.638		3.635	1,00	39.53
	ATOM	482	CA	PHE PHE	A	367 367	26.246 24.960		2.236	1.00	38.60
	ATOM	483	CB	PHE	A	367			1,783 0.808	1.00	36.36
	ATOM	484	CG	PHE	A A	367	24.281 22.827		0.581	1.00	32.10
	ATOM	485	CD1	PHE	A	367	22.401			1.00	30.12 28,95
	ATOM	486	CD2	PHE	A	367 ⁻		-12.176	1.563	1.00	26,18
	ATOM	487	CE1	PHE	A	367		-13.400		1.00	29.42
	ATOM	488	CE2	PHE	A	367		-12.491	1.373	1.00	27.60
	ATOM	489	CZ	PHE	A	367		-13.103	0.196	1.00	26.81
	ATOM	490	C	PHE	A	367		-14.519	1.117	1.00	36.82
	ATOM	491	ŏ	PHE	A	367		-15.398	1.359	1.00	36.55
	ATOM	492	N	VAL	A	368		-14.694	0.276	1.00	38.28
	MOTA	493	CA	VAL	A	368		-15.965		1.00	42.34
	ATOM	494	CB	VAL	A	368		-15.850		1.00	41.78
	ATOM	495	CG1	VAL	A	368		-14.831		1.00	44.60
	ATOM	496	CG2	VAL	Α	368		-15.457		1.00	42,23
	ATOM	497	C	VAL	A	368		-17.100	0.533	1.00	43.85
	MOTA	498	0	VAL	A	368		-18.274	0.216	1.00	44.85
	ATOM	499	N	ASP	A	369		-16.750	1,699	1.00	44.93
	MOTA	500	CA	ASP	A	369		-17.755	2.688	1.00	44.96
	MOTA	501	CB	ASP	A	369		-17.106	3.849	1.00	43.76
	ATOM	502	CG	ASP	A	369		-16.413	3.404	1.00	43.04
	ATOM	503	OD1	ASP	A	369		-15.570	4.167	1,00	44.32
	ATOM	504	OD2	ASP	A	369		-16.709	2.293	1.00	46.76
	ATOM	505	C	ASP	Α	369			3.228	1.00	45.89
	MOTA	506	0	ASP	A	369		-19.671	3.475	1.00	48.61
•	MOTA	507	N	LEU	A	370		-17.714	3.407	1.00	43.59
	ATOM ·	508	CA	LEU	A	370	24.020	-18.279	3.924	1.00	44.24

	MOTA	509	CB	LEU	A	370	22.980	-17.173	4.110	1.00	41.42
	MOTA	510	୧୯	LEU	A	370	23.404	-16.015	5.014	1.00	41.45
	MOTA	511	CD1	LEU	A	370	22.219	-15.095	5.245	1.00	42.25
	ATOM	512	CD2	LEU	A	370		-16,552		1.00	38.35
	ATOM	513	C	LEU	A	370		-19.360		1.00	44.03
	ATOM	514	0	LEU	A	370		-19.423		1.00	43.63
	ATOM	515	N	THR	A	371		-20.206		1.00	44.29
	MOTA	516	CA	THR	A	371		-21.272		1.00	44.84
	ATOM	517	CB	THR	A	371		-22.302		1.00	45.65
	ATOM	518	OG1	THR	A	371		-21.663		1.00	46.43
	ATOM	519	CG2	THR	A	371		-22.903		1.00	46.48
	ATOM	520	C	THR	A	371		-20.684		1.00	44.93
	ATOM	521	ō	THR	A	371		-19.585		1.00	44.36
	ATOM	522	N	LEU	A	372		-21.418		1.00	43.83
	ATOM	523	CA	LEU	A	372		-20.971		1.00	44.62
	ATOM	524	CB	LEU	A	372		-22.043		1.00	47.17
	MOTA	525	CG	LEU '	A	372		-21.690		1.00	46.91
	ATOM	526	CD1	LEU	A	372		-20.417		1.00	48.73
	ATOM	527	CD2	LEU	A	372		-22.844		1.00	51.12
	ATOM	528	C	LEU	A	372	18.307			1.00	44.84
	ATOM	529	0	LEU	A	372	17.705	-19.602	0.312	1.00	43.25
	ATOM	530	N	HIS	A	373	17.705		1.382	1.00	43.25
	ATOM	531	CA	HIS	A	373	16.599		2.100	1.00	42.23
	ATOM	532	CB	HIS	A	373	16.318	-22.525	3.062	1.00	45.38
	ATOM	533	CG	HIS	A	373		-22.315	3.934	1.00	
	ATOM	534	CDS	HIS	A	373		-22.513	3.743	1.00	51,43 54.99
	ATOM	535	ND1	HIS	A	373		-21.716	5.174	1.00	54.26
	ATOM	536	CE1	HIS	A	373	13.979	-21.710	5.709	1.00	53.77
	ATOM	537	NE2	HIS	A	373		-22.206	4.861	1.00	55.27
	ATOM	538	C	HIS	A	373		-20.047	2.885	1.00	39.78
	ATOM	539	0	HIS	A	373		-19.324	2.883	1.00	37.71
	ATOM	540	N	ASP	Ą	374		-19.738	3.440	1.00	36.38
	ATOM	541	CA	ASP	A	374		-18.516	4.219	1.00	37.21
	ATOM	542	CB	ASP	A	374	19.287	-18.620	5.073	1.00	38.17
	ATOM	543	CG	ASP	A	374	19.064	-19.425	6.344	1.00	41.47
	ATOM	544	OD1	ASP	A	374	17,896	-19.543	6.772	1.00	37.09
	ATOM	545	OD2	ASP	A	374	20.052	-19.940	6.912	1.00	44.40
	ATOM	546	C	ASP	A	374		-17.277		1.00	37.19
	ATOM	547	Ö	ASP	A	374		-16.208		1.00	38.13
	ATOM	548	N	GLN	A	375		-17.431		1.00	33.13
	MOTA	549	CA	GLN	Α	375		-16.339	1.198	1.00	31.94
	ATOM	550	CB	GLN	A	375		-16.756		1.00	28.81
	ATOM	551	CG	GLN	A	375		-16.570	0.189	1.00	31.71
	ATOM	552	CD	GLN	A	375		-17.222		1.00	34.49
	ATOM	553	OE1	GLN	A	375		-17.267		1.00	36.09
	MOTA	554	NE2	GLN	A	375		-17.736		1.00	40.32
	MOTA	555	C	GLN	A	375		-16.009	0.730	1.00	31.50
١	ATOM	556	ō	GĻN	A	375		-14,840	0.653		27.42
	ATOM	557	N	VAL	A	376		-17.056	0.429	1.00	30.38
	MOTA	558	CA	VAL	A	376		-16.907		1.00	33.50
	MOTA	559	CB	VAL	A	376		-18.286		1.00	30.57
	ATOM	560	CG1	VAL	A	376		-18.122		1.00	33.14
	ATOM	561	CG2	VAL	A	376		-18.122		1.00	30.79
	ATOM	562	C C	VAL	A	376 376		-16.952	1.002	1.00	33.80
	ATOM	563	0	VAL	A	376		-15.237		1.00	34.89
	MOTA	564	Ŋ	HIS	A	377		-15.237	2.261	1.00	33.35
	ATOM	565	CA	HIS	A	377		-15.941	3.329	1.00	32.81
	ATOM	566	CB	HIS	A	377		-15.941	4.644	1.00	35.24
	- 1 7 01/1	300		1113	474	311		10,034	4 . O 4 4	¥.00	JJ. 24

MOTA	567	CG	HIS	A	377	13.429 -15.989 5.851 1.00 40.15
MOTA	568	CD2	HIS	A	377	14.054 -15.495 6.946 1.00 40.86
MOTA	569	ND1	HIS	Α	377	12.090 -15.703 6.012 1.00 43.08
MOTA	570	CE1	HĮS	A	377	11.913 -15.062 7.154 1.00 42.44
MOTA	571	NE2	HIS	A	377	13.089 -14.922 7.740 1.00 44,85
ATOM	572	C	HIS	A	377	14.058 -14.454 3.507 1.00 28.63
MOTA	573	0	HIS	A	377	13.158 -13.619 3.613 1.00 29.20
ATOM	574	N	LEU	A	378	15.343 -14.125 3.544 1.00 24.41
ATOM	575	CA	LEU	A	378	15.759 ~12.738 3.721 1.00 23.21
ATOM	576	CB	LEU	A	378	17.289 -12.650 3.743 1.00 20.98
ATOM	577	CG	LEU	A	378	17.960 -13.190 5.016 1.00 24.22
ATOM	578	CD1	LEU	A	378	19.471 -13.041 4.924 1.00 21.07
ATOM	579	CD2	LEU	A	378	17.431 -12.446 6.221 1.00 20.24
ATOM	580	C	LEU	A	378	15.190 -11.827 2.630 1.00 24.78
ATOM	581	Ö	LEU	A	378	14.638 -10.766 2.922 1.00 22.09
MOTA	582	N	LEU	A	379	
MOTA	583	CA	LEU	A	379	
MOTA	584	CB	LEU	A	379	15.307 -12.025 -1.062 1.00 27.12
ATOM	585	CG	LEU	A	379	16.724 -11.600 -1.437 1.00 24.39
MOTA	586	CD1	LEU	A	379	17.299 -12.557 -2.470 1.00 27.58
ATOM	587	CD2	LEU	A	379	16.679 -10.178 -1.983 1.00 29.05
ATOM	588	C	LEU	A	379	13.287 -11.355 0.246 1.00 27.61
ATOM	589	0	LEU	A	379	12.726 -10.301 -0.062 1.00 26.16
ATOM	590	N	GLU	A	380	12.616 -12.454 0.576 1.00 25.65
ATOM	591	CA	GLU	A	380	11.154 -12.471 0.592 1.00 26.85
MOTA	592	CB	GLU	A	380	10.640 -13.882 0.871 1.00 29.38
ATOM	593	CG	GLU	A	380	10.718 -14.796 -0.331 1.00 35.58
MOTA	594	CD	GLU	A	380	10.228 -16.194 -0.025 1.00 39.31
ATOM	595	OE1	GLU	A	380	10.142 -17.008 -0.967 1.00 42.89
ATOM	596	OE2	GLU	A	380	9.927 ~16.478 1.153 1.00 39.45
ATOM	597	C	GLU	A	380	10.604 -11.526 1.649 1.00 25.43
ATOM	598	0	GLU	A	380	9.551 -10.925 1.469 1.00 27.75
ATOM ATOM	599 600	N C2	CYS	A	381	11.324 -11.400 2.753 1.00 25.57
ATOM	601	CA CB	CYS CYS	A A	381 381	10.907 -10.530 3.843 1.00 26.46
ATOM	602	SG	CYS	A	381	11.570 -11.000 5.149 1.00 31.46
ATOM	603	C	CYS	A		11.305 -9.946 6.623 1.00 45.32
ATOM	604	0			381	11.262 -9.059 3.589 1.00 24.77
ATOM			CYS	A	381	10.516 -8.166 3.975 1.00 25.01
ATOM	605 606	N CD	ALA	A	382	12.377 -8.815 2.903 1.00 22.23
ATOM	607	CA CB	ALA ALA	A	382	12.855 -7.449 2.681 1.00 21.83
ATOM	608	C	ALA	A	382 382	14.319 -7.383 3.095 1.00 21.56
ATOM	609	0	ALA	A	382	12.705 -6.778 1.311 1.00 19.78
ATOM	610	И	TRP	A	383	12.996 -5.587 1.182 1.00 17.01
ATOM	611	CA	TRP	A		12.261 -7.507 0.294 1.00 17.61
				A	383	12.164 -6.915 -1.036 1.00 18.06
ATOM	612	CB	TRP	A	383	11.580 -7.928 -2.035 1.00 20.28
ATOM	613	CG	TRP	A	383	10.105 -8.201 -1.919 1.00 20.50
ATOM	614	CD2	TRP	A	383	9.049 -7.509 -2.599 1.00 22.48
ATOM	615	CE2	TRP	A	383	7.836 -8.138 -2.238 1.00 20.41
MOTA	616	CE3	TRP	A	383	9.012 -6.420 -3.482 1.00 22.06
ATOM	617	CD1	TRP	A	383	9.506 -9.189 -1.190 1.00 23.38
ATOM	618	NE1	TRP	A	383	8.142 -9.159 -1.377 1.00 22.59
ATOM	619	CZ2	TRP	A	383	6.598 -7.713 -2.724 1.00 21.98
ATOM	620	CZ3	TRP	A	383	7.780 -5.998 -3.968 1.00 25.50
ATOM	621	CH2	TRP	A	383	6.589 -6.647 -3.587 1.00 23.11
ATOM	622	C	TRP	A	383	11.448 -5.564 -1.170 1.00 19.18
MOTA	623	0	TRP	A	383	11.972 -4.663 -1.824 1.00 19.27
ATOM	624	N	LEU	A	384	10.273 -5.396 -0.567 1.00 18.32

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	ATOM	625	CA	LEU	A	384	9.586	-4.118 -0.719	1.00	16.38 -
	ATOM	626	CB	LEU	A	384	8.125	-4.218 -0.258	1.00	16,79
	ATOM	627	CG	LEU	A	384	7.211	-3.013 -0.577		18.39
	MOTA	628	CD1	LEU	Ą	384	7.464	-2.485 -1,995	1.00	13.91
	ATOM	629	CD2	LEU	A	384	5.750	-3.432 -0.410	1.00	18.38
	ATOM	630	Ç	LEU	A	384	10.324	-3.027 0.051	1.00	18.90
	MOTA	631	0	LEU	A	384	10.334	-1.870 -0.357	1.00	20.90
	atom	632	N	GLU	A	385	10.949	-3.404 1.163	1.00	18.61
	MOTA	633	CA	GLU	A	385	11.718	-2.462 1.970	1.00	19.58
	MOTA	634	CB	GLU	A	385	12.274	-3.154 3.213	1.00	17.43
	ATOM	635	CG	GLU	A	385	11.292	-3.237 4.357	1.00	22.92
	ATOM	636	CĎ	GLU	A	385	11.963	-3.676 5.640	1.00	25,83
	MOTA	637	OE1	GLU	· A	385	12.431	-2.799 6,391	1.00	23.69
	ATOM	638	OE2	GLU	A	385	12.027	-4.897 5.889	1,00	27.64
	ATOM	639	C	GLU	A	385	12.890	-1.934 1.156	1.00	19.46
	ATOM	640	0	GLU	A	385	13.206	-0.743 1.196	1.00	15.04
	ATOM	641	N	ILE	A	386	13.539	-2.842 0.431	1.00	13.32
	ATOM	642	CA	ILE	A	386	14.685	-2.484 -0.388	1.00	15,01
	ATOM	643	CB	ILE	A	386	15.475	-3.763 -0.807	1.00	17.43
	ATOM	644	CG2	ILE	A	386	16.544	-3.424 -1.849	1.00	17.99
	ATOM ATOM	645 646	CG1 CD1	ILE	A	386 386	16.185	-4.338 0.432	1.00	20.31
	ATOM	647	CDI	ILE	A A	386	16.682 14.273	-5.766 0.284 -1.645 -1.598	1.00	23.97
	ATOM	648	0	ILE	A	386	14.273	-0.724 -2.004	1.00 1.00	16.10 17.42
•	ATOM	649	N	LEU	A	387	13.112	-1.944 -2.167	1.00	17.61
	ATOM	650	CA	LEU	A	387	12.620	-1.173 -3.304	1.00	18.20
	ATOM	651	СВ	LEU	A	387	11.359	-1.814 -3.882	1.00	17.51
	ATOM	652	CG	LEU	A	387	11.519	-3.064 -4.747	1.00	26.37
	ATOM	653	CD1	LEU	A	387	10.173	-3.406 -5.395	1.00	24.63
	ATOM	654	CD2	LEU	A	387	12.589	-2.824 -5.808	1.00	21.58
	ATOM	655	C	LEU	A	387	12.283	0.249 -2.838	1.00	17.60
	MOTA	656	O	LEU	A	387	12.571	1.224 -3.530	1.00	17.15
	atom	657	N	MET	A	388	11.677	0.357 -1.660	1.00	17.65
	ATOM	658	CA	MET	Α	388	11.286	1.656 -1.121	1.00	18.49
	ATOM	659	CB	MET	A	388	10.302	1.460 0.034	1.00	19.65
	ATOM	660	CG	MET	A	388	8.893	1.105 -0.435	1.00	15.12
	ATOM	661	SD	MET	A	388	7.744	0.769 0.910	1.00	18.73
	ATOM	662	CE	MET	A	388	6.163	0.908 0.048	1.00	18.34
	ATOM	663 664	C	MET	A	388	12.451	2.553 -0.691	1,00	22.62
	ATOM ATOM	665	O N	MET	A	388	12.417	3.767 -0.928	1.00	22.49
	ATOM	666	CA	ILE	A A	389 389	13.482 14.604	1.988 -0.064	1.00	21.45
	MOTA	667	CB	ILE	A	389	15.590	2.831 0.331 2.108 1.299	1.00	18.54 19.35
	ATOM	668	CG2	ILE	A	389	16.362	0.998 0.578	1.00	15.50
	ATOM	669	CG1	ILE	A	389	16.556	3.142 1.889	1.00	21.95
	ATOM	670	CD1	ILE	A	389	17.373	2.658 3.080	1.00	15.86
	ATOM	671	C	ILE	A	389	15.333	3.322 -0.922	1.00	18.67
	ATOM	672	Ö	ILE	A	389	15,813	4.453 -0.970	1.00	19,75
	ATOM	673	N	GLY	A	390	15.410	2.477 -1.943	1.00	20.58
	ATOM	674	CA	GLY	A	390	16.049	2.895 -3.183	1.00	19.33
	ATOM	675	C	GLY	A	390	15.243	4.021 -3.819	1.00	17.48
	ATOM	676	0	GLY	A	390	15.801	4.994 -4.318	1.00	21.87
	MOTA	677	N	LEU	A	391	13.920	3.888 -3.787	1.00	19.17
	ATOM	678	CA	LEU	Α	391	13.018	4.887 -4.343	1.00	21.50
	ATOM	679	CB	LEU	A	391	11.561	4.420 -4.194	1.00	18.25
	MOTA	680	CG	LEU	A	391	10.480	5.497 -4.342	1.00	21.98
	ATOM	681	CD1	LEU	Α	391	10.579	6.156 -5.725	1.00	21.39
	MOTA	682	CD2	LEU	A.	391	9.115	4.868 -4.148	1.00	17.15

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	ATOM	683	C	LEU	A	391	13.208	6.216 -3.620	1.00	23.27	
	ATOM	684	0	LEU	A	391.	13.440	7.255 -4.243	1.00	23.60	
	MOTA	685	N	VAL	A	392	13.122	6.170 -2,295	1.00	23.04	
	ATOM	686	CA	VAL	A	392	13.282	7,357 -1.469	1.00	24,42	
	ATOM	687	CB	VAL	A	392	13.186	6.993 0.042	1.00	27.38	
	MOTA	688	CG1	VAL VAL	A	392	13.733	8.129 0.897	1.00	30.37	
	MOTA MOTA	689 690	CG2 C	VAL	A A	392 392	11.739 14.626	6.712 0.414 8.014 -1.754	1.00	23.48 27.55	
	ATOM	691	0	VAL	A	392	14.728	9.242 -1.932	1.00	27.50	
	ATOM	692	Ŋ	TRP	A	393	15.652	7.186 -1.924	1.00	23.65	
	ATOM	693	CA	TRP	A	393	16.999	7.670 -2.204	1.00	24.76	
	MOTA	694	CB	TRP	A	393	17.977	6.491 -2,199	1.00	22.86	
	MOTA	695	CG	TRP	A	393	19.287	6.784 -2.857	1.00	25.90	
	ATOM	696	CD2	TRP	A	393	20.341	7.605 -2.339	1.00	28.09	
	ATOM	697	CE2	TRP	A	393	21.375	7.612 -3.302	1.00	29.94	
	ATOM	698	CE3	TRP	A	393	20.512	8.335 -1.154	1.00	30.20	
	ATOM	699	CD1	TRP	A	393	19.710	6.339 -4.077	1,00	26.55	
	ATOM	700	NE1	TRP	Α	393	20.963	6.833 -4.351	1.00	30.64	
	ATOM	701	CZ2	TRP	A	393	22.566	8.323 -3.120	1.00	32.43	
	ATOM	702	CZ3	TRP	A	393	21.698	9.044 -0.971	1.00	34.58	
	MOTA	703	CH2	TRP	A	393	22.709	9.030 -1.950	1.00	36.54	
	ATOM	704	C	TRP	A	393	17.082	8.414 -3.547	1.00	25.02	
	ATOM	705	0	TRP	Ą	393	17.767	9.435 -3.650	1.00	20.97	
	ATOM	706	N	ARG	A	394	16.399	7.897 -4.568	1.00	23.06	
	MOTA	707	CA	ARG	A	394	16.412	8,531 ~5.890	1.00	25.97	
•	MOTA	708	CB	ARG	A	394	15.776	7.633 -6.965	1.00	24.05	
	MOTA	709	CG	ARG	A	394	16.243	6.195 -7.024	1.00	26.05	
	ATOM	710	CD	ARG	A	394	15.830	5.551 -8.352	1.00	22.70	
	ATOM ATOM	711 712	ne Cz	ARG ARG	A A	394 394	14.443 14.053	5.071 -8.363 3.912 -7.841	1.00 1.00	20.71 21.26	
	ATOM	713	NH1	ARG	A	394	14.033	3.108 -7.267	1.00	20.09	
	ATOM	714	NH2	ARG	A	394	12.783	3.544 -7.907	1.00	21.26	
	ATOM	715	C	ARG	A	394	15.622	9.833 -5.879	1.00	23.40	
	ATOM	716	o o	ARG	A	394	15.889	10.729 -6.677	1.00	28.61	
	ATOM	717	N	SER	A	395	14.638	9.924 -4.988	1.00	26.65	
	MOTA	718	CA	SER	A	395	13.776	11.104 -4.902	1.00	27.46	
	atom	719	CB	SER	A	395	12.395	10.696 -4.382	1.00	26.70	
	MOTA	720	0G	SER	A	395	11.916	9.530 -5.029	1.00	22.95	
	ATOM	721	C	SER	A	395	14.316	12.240 -4.033	1.00	31.45	
	atom	722	0	SER	A	395	13.726	13.324 -3.977	1.00	28.11	
	ATOM	723	И	MET	A	396	15.437	11.986 -3.368	1.00	33.83	
	MOTA	724	CA	MET	A	396	16.061	12.954 -2.475	1.00	38.83	
	ATOM	725	CB	MET	A	396	17,466	12.483 -2.112	1.00	39.47	
	ATOM	726	CG	MET	A	396	17.585	11.919 -0.715	1.00	41,37	
	ATOM	727	SD	MET	A	396	19.192	12.262 0.004	1.00	42.20	
	ATOM	728	CE	MET	A	396	20.263	11.996 -1.404	1.00	42.84	
	ATOM	729 730	C	MET MET	A	396 396	16.143	14.376 -3.018	1.00	40.69	
	ATOM ATOM	731	O N	GLU	A	396 397	15.637 16.794	15.316 -2.403 14.526 -4.166	1.00 1.00	38.85 42.19	
	ATOM	732	CA	GLU	A A	397	16.794	15.831 -4.790	1.00	44.80	
	ATOM	733	CB	GLU	A	397 397	18.184	15.785 -5.729	1.00	46.02	
	ATOM	734	CG	GLU	A	397	17.883	15.189 -7.096	1.00	54.42	
	ATOM	735	CD	GLU.	A	397	19.117	14.665 -7.810	1.00	59.40	
	ATOM	736	OE1	GLU		. 397	19.219	13.430 -7.990	1.00	60.63	
	ATOM	737	OE2	GLU	A	397	19.980	15.485 -8.196	1.00	62.71	
	ATOM	738	C	GLU	A	397	15.735	16.322 -5.554	1.00	42.94	
	ATOM	739	0	GLU	Α	397	15.830	17.229 -6.376	1:00	44.68	
	MÔTA	740	N	HIS	A	398	14.579	15.728 -5.280	1.00	40.82	

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	MOTA	741	CA	HIS	A	398	13.342	16.118 -5.950	1.00	39.21
	ATOM	742	CB	HIS	A	398	12.924	15.043 -6.956	1.00	39.05
	MOTA	743	ÇG	HIS	A	398	13.870	14.886 -8.104	1.00	41.57
	ATOM ·	744	CD2	HIS	A	398	13.904	15.484 -9.318	1.00	39.28
	ATOM	745	ND1	HIS	A	398	14.940	14.017 -8.074	1.00	41.85
	ATOM	746	CEL	HIS	A	398	15.592	14.086 -9.220	1.00	40.88
	AŢOM	747	NE2	HIS	A	398	14.985	14.969 -9.993	1.00	42.30
	ATOM	748	C	HIS	A	398	12,216	16.332 -4.944	1.00	37.04
	ATOM	749	0	HIS	A	398	11.282	15.535 -4.864	1.00	36.51
	ATOM	750	N	PRO	A	399	12.283	17.427 -4.171	1.00	39.19
	ATOM	751	CD	PRO	A	399	13.328	18.467 -4.198	1.00	35.36
	ATOM	752	CA	PRO	A	399	11.243	17.709 -3.173	1.00	37.10
	ATOM	753	CB	PRO	Α	399	11.603	19.101 -2.654	1.00	37.86
	ATOM	754	CG	PRO	A	399	13.050	19.267 -2.963	1.00	35.83
	ATOM	755	C	PRO	A	399	9.828	17.663 -3.744	1.00	37.02
	ATOM	756	0	PRO	A	399	9.554	18.249 -4.789	1.00	38.52
	ATOM	757	N	GLY	A	400	8.938	16.954 -3.057	1.00	33.58
	ATOM	758	CA	GLŸ	A	400	7.559	16.865 -3.503	1.00	32.12
	ATOM	759	C	GĻY	A	400	7.230	15.706 -4.428	1.00	32.43
	ATOM	760	0	GLY	A	400	6.063	15.344 -4.574	1.00	33.21
	ATOM	761	N	LYS	A	401	8.237	15.112 -5.055	1,00	31.35
	ATOM	762	CA	LYS	A	401	7.972	14.007 -5.966	1.00	30.75
	ATOM	763	CB	LYS	A	401	8.235	14.430 -7.415	1.00	35.43
	ATOM	764	CG	LYS	Α	401	8.130	15.927 -7.675	1.00	35.15
	ATOM	765	CD	LYS	A	401	9.096	16.353 -8.774	1.00	36.88
	ATOM	766	CE	LYS	A	401	8.733	17.721 -9.331	1.00	36.71
	ATOM	767	NZ	LYS	A	401	7.295	18.027 -9.116	1.00	34.22
	ATOM	768	С	LYS	Α	401	8.768	12.746 -5.677	1.00	30.97
	ATOM	769	0	LYS	A	401	9.809	12.776 -5.006	1.00	27,60
	ATOM -	770	N	LEU	A	402	8.256	11.635 -6.197	1,00	27.28
	MOTA	771	CA .	LEU	A	402	8.889	10.334 -6.050	1.00	29.07
	ATOM	772	CB	LEU	A	402	7.866	9.294 -5.590	1.00	22.55
	ATOM	773	CG	LEU	A	402	7.265	9.555 -4.207	1.00	24.94
	ATOM	774	CD1	LEU	A	402	6.126	8.583 -3.937	1.00	19.32
	ATOM	775	CD2	LEU	Α	402	8.355	9.416 -3.157	1.00	21.54
	ATOM	776	C	LEU	A	402	9.448	9.948 -7.414	1.00	28.78
	ATOM	777	0	LEU	A	402	8.704	9.836 -8.389	1.00	29.98
	ATOM	778	N	ĻEU	A	403	10.761	9.770 -7.487	•	
	ATOM	779	CA	LEU	A	403	11.393	9.400 -8.744	1.00	27.17
	ATOM	780	CB	LEU	A	403	12.825	9.937 -8,816	1.00	26.95
	ATOM	781	CG	LEU	A	403	13.401	10.027-10.238	1.00	30.42
	ATOM	782	CD1	LEU	A	403	14.519	11.046-10.288	1.00	30.76
	ATOM	783	CD2	LEU	A	403	13.915	8.665-10.676	1.00	33.11
	ATOM	784	С	LEU	A	403	11.419	7.891 -8.901	1.00	24.78
	ATOM	785	0	LEU	A	403	12.428	7.257 -8.619	1.00	24.68
	ATOM	786	N	PHE	A	404	10.306	7.319 -9.344	1.00	23.11
	ATOM	787	CA	PHE	A	404	10.239	5.881 -9.546	1.00	26,93
	ATOM	788	CB	PHE	A	404	8.826	5.470 -9.946	1.00	27.04
	ATOM	789	CG	PHE	A	404	7.850	5.513 -8.816	1.00	27.89
	ATOM	790	CD1	PHE	A	404	7.028	6.623 -8.631	1.00	26.20
	ATOM	791	CD2	PHE	A	404	7.750	4.444 -7.925	1.00	23.10
	ATOM	792	CE1	PHE	A	404	6.116	6.668 -7.573	1.00	25.29
	ATOM	793	CE2	PHE	A	404	6.845	4.481 -6.870	1.00	21.01
	ATOM	794	CZ	PHE	A	404	6.026	5.595 -6.693	1.00	22.91
	ATOM	795	C	PHE	A	404	11.232	5.507-10.637	1.00	26.04
	ATOM	796	0	PHE	A	404	11.882	4.464-10.578	1.00	27.27
	ATOM ATOM	797	N	ALA	A	405	11.348	6.383-11.626	1.00	28.80
	ATOM	798	CA	ALA	A	405	12.271	6.195-12.740	1.00	29.21

MOTA	799	CB	ALA	A	405	11.650	5.287-13.806	1.00	26.89
Mota	800	C	ALA	A	465	12.549	7.578-13.317	1.00	30,23
ATOM	801	0	ALA	A	405	11.770	8.508-13.109	1.00	27.38
ATOM	802	N	PRO	A	406	13.672	7,737-14.032	1.00	30.05
ATOM	803	CD	PRO	A	406	14.712	6.745-14.352	1.00	26.31
MOTA	804	CA	PRO	A	406	13.977	9.053-14.604	1.00	32.10
ATOM	805	CB	PRO	A	406	15.232	8.800-15.438	1.00	31.28
MOŢA	806	CG	PRO	A	406	15.865	7.602-14.776	1.00	31.44
ATOM	807	C	PRO	A	406	12.820	9.589-15.436	1.00	32.58
ATOM	808	0	PRO	A	406	12.605	10.796-15.507	1.00	32.58
ATOM	809	N	ASN	Α	407	12.063	8.690-16.053	1.00	32.86
ATOM	810	CA	ASN	A	407	10.935	9.119-16.865	1.00	32.78
ATOM	811	CB	ASN	A	407	10.950	8.418-18.228	1.00	34.73
ATOM	812	CG	ASN	A	407	10.884	6.907-18.121	1.00	35.37
ATOM	813	OD1	ASN	A	407	11.189	6.317-17.077		30.24
ATOM	814	ND2	ASN	A	407	10.486	6.268-19,215	1.00	34.08
ATOM	815	С	ASN	A	407	9.605	8.901-16.166	1.00	34.90
ATOM	816	0	ASN	A	407	8.549	8.897-16.798	1.00	36.09
ATOM	817	N	LEU	A	408	9.660	8.724-14.851	1.00	33.56
ATOM	818	CA	LEU	A	408	8.452	8.544-14.061	1.00	35.59
ATOM	819	СВ	LEU	A	408	8.141	7.062-13,851	1.00	33.81
ATOM	820	CG	LEU	A	408	6.696	6.823-13.397	1.00	36.44
ATOM	821	CD1	LEU	A	408	5.746	7.479-14.390	1.00	34.14
ATOM	822	CD2	LEU	Α	408	6.406	5.334-13.287	1.00	32.96
ATOM	823	C	LEU	A	408	8.607	9.245-12.717	1.00	38.03
ATOM	824	Õ	LEU	A	408	8.880	8.614-11.695	1.00	36.38
ATOM	825	Ň	LEU	A	409	8.441		1.00	37.87
ATOM	826	CA	LEU	A	409	8.548	11.395-11.553	1.00	37.95
ATOM	827	CB	LEU	A	409	9.373	12.636-11.877	1.00	39.52
ATOM	828	CG	LEU	A	409	10.023		1.00	42.46
ATOM	829	CD1	LEU	A	409	11.100	12.547-10.082	1.00	43.24
ATOM	830	CD2	LEU	A	409	10.614	14.691-11.266	1.00	46.05
ATOM	831	C	LEU	A	409	7.132	11.792-11.163	1.00	37.13
ATOM	832	ō	LEU	A	409	6.482	12.546-11.882	1.00	35.70
ATOM	833	N	LEU	A	41.0	6.654	11.284-10.030	1.00	35.29
ATOM	834	CA	LEU	A	410	5.297	11.576 -9.583	1.00	33.33
MOTA	835	ĊВ	LEU	A	410	4.503	10.277 -9.449	1.00	29.37
ATOM	836	CG	LEU	A	410	4.645	9.238-10.560		32.75
ATOM	837	CD1	LEU	A	410		7.925-10.104		29.16
ATOM	838	CD2	LEU	A	410		9.744-11.819		30.70
ATOM	839	C	LEU	A	410	5.207		1.00	35.14
ATOM	840	Ō	LEU	A	410	6.078	12.214 -7.400	1.00	36.94
ATOM	841	N	ASP	A	411	4.141	13.108 -8.105	1.00	34.76
ATOM	842	CA	ASP	A	411	3.933	13.843 -6.873	1.00	35.40
ATOM	843	CB	ASP	A	411	3.733	15.341 -7.144	1.00	40.02
ATOM	844	CG	ASP	A	411	2.471	15.645 -7.928	1.00	41.32
ATOM	845	OD1	ASP	A	411	1.570	14.785 -8.001	1.00	
ATOM	846	OD2	ASP	A	411			•	45.03
ATOM	847	C C	ASP	A A	411	2.383 2.727	16.764 -8.474 13.234 -6.179	1.00	45.01
ATOM	848	Ö	ASP	A	411		· · · · · · · · · · · · · · · · · · ·	1.00	36.10
ATOM	849	И	ASP			2.033	12.395 -6.762	1.00	34.08
ATOM	850			A	412	2.480	13.647 -4.940	1.00	35.99
ATOM	850 851	CA	ARG	A n	412	1.375	13.099 -4.169	1.00	39.37
		CB	ARG	A	412	1.260	13.824 -2.825	1.00	39.75
ATOM	852	CG	ARG	A	412	0.562	15.168 -2.870	1.00	40.49
ATOM	853	CD	ARG	A	412	0.454	15.736 ~1.465	1.00	40.65
ATOM	854	NE CZ	ARG	A	412	-0.261	14.826 -0.577	1.00	37.48
ATOM	855 856		ARG	A	412	-1.574	14.855 -0.384	1.00	42.84
ATOM	856	NH1	ARG	A	412	-2.316	15.754 -1.024	1.00	40.82

ATOM	857	NH2	ARG	A	412	-2.150	13.986 0.438	1.00	38.32
MOTA	858	C	ARG	A	412	0.034	13,108 -4.889	1.00	39.80
MOTA	859	0	ARG	A	412	-0.775	12.201 -4.706	1.00	39.92
ATOM	860	N	asn	A	413	-0.198	14.119 -5.717	1.00	41.64
MOTA	861	CA	asn	A	413	-1.458	14.215 -6.440	1.00	43.19
ATOM	862	CB	ASN	A	413	-1.518	15,533 -7.210	1.00	46.44
ATOM	863	CG	ASN	A	413	-1.739	16.718 -6.299	1.00	47.86
MOTA	864	OD1	ASN	A	413	-2.376	16.594 -5.249	1.00	48.05
ATOM	865	ND2	ASN	A	413	-1.213	17.876 -6,687	1.00	49.43
ATOM	866	C	ASN	A	413	-1:673	13.044 -7.385	1.00	41.48
ATOM	867	0	ASN	A	413	-2.792	12.567 -7,546	1.00	40.50
ATOM	868	N	GLN	Α	414	-0.600	12.577 -8.010	1.00	42.82
ATOM	869	CA	GLN	A	414	-0.703	11.448 -8.925	1.00	
ATOM	870	CB	GLN	A	414	0.585	11.307 -9.741	1.00	47.52
ATOM	871	CG	GLN	A	414	0.572	12.088-11.049	1.00	50.47
ATOM	872	CD	GLN	A	414	1.914	12.713-11.375	1.00	53.91
ATOM	873	OE1	GLN	A	414	2.591	13.257-10.501	1.00	53.68
ATOM	874	NE2	GLN	A	414	2.309	12.637-12.641	1.00	56.91
MOTA	875	C	GLN	A	414	-0.970	10.163 -8.141	1.00	43.21
ATOM	876	Ö	GLN	A	414	-1.491	9.193 -8.682	1.00	42.33
ATOM	877	N	GLY	A	415	-0.618	10.168 -6.860	1.00	41.97
ATOM	878	CA	GLY	Α	415	-0.836	8.992 -6.040	1.00	40.43
ATOM	879	C	GLY	A	415	-2.306	8.720 -5.804	1.00	40.80
ATOM	880	Ö	GLY	Α	415	-2.696	7.601 -5.472	1.00	37.83
ATOM	881	Ŋ	LYS	A	416	-3.129	9.748 -5,978	1.00	42.16
ATOM	882	CA	LYS	A	416	-4.566	9.613 -5.779	1.00	44.34
ATOM	883	CB	LYS	A	416	-5.212	10.996 -5.704	1.00	45.65
ATOM	884	CG	LYS	A	416	-4.761	11.819 -4.510	1.00	47.42
ATOM	885	CD	LYS	A	416	-4.910	13.309 -4.777	1.00	50.97
ATOM	886	CE	LYS	Α	416	-5.992	13.924 -3.898	1.00	53.25
ATOM	887	NZ	LYS	A	416	-5.416	14.764 -2.809	1.00	56.95
ATOM	888	C	LYS	A	416	-5.227	8.793 -6.886	1.00	45.33
ATOM	889	Ö	LYS	A	416	-6.339	8.299 -6.714	1.00	46.50
ATOM	890	N	CYS	A	417	-4.540	8.648 -8.015	1.00	45.18
ATOM	891	CA	CYS	A	417	-5.066	7.890 -9.148	1.00	46.25
ATOM	892	СВ	CYS	A	417	-4.062	7.902-10.305	1.00	49.29
ATOM	893	SG	CYS	A	417	-3.916	9.493-11.168	1.00	49.59
ATOM	894	c	CYS	A	417	-5.373	6.452 -8.752	1.00	
ATOM	895	ō	CYS	A	417	-6.220	5.794 -9.359	1.00	46.50
ATOM	896	N	VAL	A	418	-4.671	5.968 -7.731	1.00	45.07
ATOM	897	CA	VAL	A	418	-4.866	4.612 -7.232	1.00	42.75
ATOM	898	CB	VAL	A	418	-3.525	3.841 -7.206	1.00	42.45
ATOM	899	CG1	VAL	A	418	-3.670	2.563 -6.410	1.00	40.22
ATOM	900	CG2	VAL	A	418	-3.071	3.538 -8.634	1.00	38.03
ATOM	901	C	VAL	A	418	-5.441	4.714 -5.818	1.00	41.46
ATOM	902	o o	VAL	A	418	-4.883	5.400 -4.963	1.00	42.08
ATOM	903	N	GLU	A	419	-6.559	4.036 -5.579		40.95
ATOM	904	CA	GLU	A	419	-7.223	4.073 -4.275	1.00	42.51
ATOM	905	CB	GLU	A	419	-8.536	3.282 -4.333	1.00	44.52
ATOM	906	CG	GLU	A	419	-9.010	2.751 -2.984	1.00	50.42
ATOM	907	CD	GLU	A	419	-10.413	2.168 -3.035	1.00	54.38
ATOM	908		GLU	A	419	-10.582	1.059 -3.590	1.00	54.38
ATOM	909	OE2	GLU	A	419	-10.362	2.820 -2.516	1.00	
ATOM	910	C	GLU	A	419	-6.370	3.552 -3.121	1.00	57.90 41.11
ATOM	911	0	GLU	A	419	-5.955	2.393 -3.116	1.00	39.42
ATOM	912	Ŋ	GLY	A	419	-6.129			
ATOM	913	CA	GLY	A	420	-5.129 -5.346	4.419 -2.140	1.00	40.53
ATOM	914	CA		A			4.049 -0.973		37.61
V TOW	<i>31 3</i> . ™2	C	GLY	A	420	-3.854	4.258 -1.140	1.00	37.01

MOTA	915	0	GLY	A	420	-3.088	4.105 -0.190	1.00	32.59
MOTA	916	N	MET	A	421	-3.444	4.623 -2.350	1.00	36.21
ATOM	917	ÇA	MET	A	421	-2.035	4.825 -2.656	1.00	36,02
ATOM	918	CB	MET	A	421	-1.799	4.607 -4.160		32.84
ATOM	919	CG	MET	A	421	-0.351	4.754 -4.617	-	35.82
ATOM	920	SD	MET	A	421	0.806	3.611 -3.812		35.57
ATOM	921	CE	MET	A	421	0.881	2.294 -5.005		32.51
MOTA	922	c	MET	A	421	-1,474	6.180 -2.226		
ATOM	923	o	MET	A	421	-0.275			34.93
ATOM	924	Ŋ	VAL		421		6.294 -1.985		35.17
				A		-2.319	7.205 -2.118		33.97
ATOM	925	CA	VAL	A	422	-1.823	8.520 -1.708		31.29
ATOM	926	ÇB	VAL	A	422	-2.927	9.607 -1.766	1.00	33.14
ATOM	9.27	CG1	VAL	A	422	-3.823	9.535 -0.533	1.00	30.10
ATOM	928	CG2	VAL	A	422	-2.279	10.982 -1.854	1.00	30.08
ATOM	929	C	VAL	A	422	-1.231	8.498 -0.296	1.00	32.64
ATOM	930	0	VAL	A	422	-0.274	9.220 0.002	1,.00	28.41
ATOM	931	Ŋ	GLU	A	423	-1.803	7.670 0.571	1.00	31.53
ATOM	932	CA	GLU	A	423	-1.311	7.558 1.935	1.00	35.99
ATOM	933	CB	GLU	A	423	-2.190	6.594 2.737	1.00	40.37
ATOM	934	CG	GLU	A	423	-3.588	7.129 3.043	1.00	49.41
ATOM	935	CD	GLU	A	423	-4.438	7.336 1.795	1.00	52.38
ATOM	936	OE1	GLU	Α	423	-5.349	8.188 1.835	1.00	56.91
ATOM	937	OE2	GLU	A	423	-4.200	6.652 0.776	1.00	54.53
ATOM	938	Ç	GLU	A	423	0.127	7,043 1.886	1.00	34.83
ATOM	939	ō	GLU	A	423	1.007	7.552 2.581	1.00	31.85
ATOM	940	N	ILE	A	424	0.369	6.038 1.050	1.00	30.17
ATOM	941	CA	ILE	A	424	1.711	5.488 0.929	1.00	28.99
ATOM	942	CB	ILE	A	424	1.696	4,195 0.109	1.00	
ATOM	943	CG2	ILE	A	424	3.108	3,588 0.068		30.96
ATOM	944	CG1	ILE	A	424	0.671		1.00	27.20
ATOM		CD1			424		3.230 0.725	1,00	30.77
	945		ILE	A		0.810	1.787 0.291	1.00	34.69
ATOM	946	C	ILE	A	424	2.700	6.483 0.312	1.00	28.21
MOTA	947	0	ILE	A	424	3.856	6,551 0.735	1.00	28.48
MOTA	948	N	PHE	A	425	2.253	7.260 -0.675	1.00	27.68
ATOM	949	CA	PHE	A	425	3.119	8.253 -1.315	1.00	27.30
ATOM	950	CB	PHE	A	425	2.381	8.958 ~2.458	1.00	26.36
ATOM	951	CG	PHE	A	425	2,538	8.289 -3.798	1.00	2722
ATOM	952	CD1	PHE	A	425	2.619	9.050 -4.958	1.00	27.36
ATOM	953	CD2	PHE	A	425	2.566	6.900 -3.905	1.00	27.89
ATOM	954	CE1	PHE	A	425	2.721	8.443 -6.207	1.00	29.63
ATOM	955	CE2	PHE	A	425	2.668	6.282 -5,149	1.00	27.28
ATOM	956	CZ	PHE	A	425	2.745	7.056 -6.303	1.00	27.63
ATOM	957	C	PHE	A	425	3.591	9.306 -0.312	1.00	25.66
ATOM	958	0	PHE	A	425	4.757	9.713 -0.328	1.00	26.33
ATOM	959	N	ASP	A	426	2.680	9.746 0.552	1.00	27.92
MOTA	960	CA	ASP	A	426	2,984	10.759 1.570	1.00	28.88
ATOM	961	CB	ASP	A	426	1.721	11.102 2.369	1.00	32.58
ATOM	962	CG	ASP	A	426	0.781	12.034 1.613	1.00	37.47
ATOM	963	OD1	ASP	A	426	-0.432	12.039 1.925	1.00	37.72
ATOM	964	OD2	ASP	A	426	1.253	12.758 0.710	1.00	36.35
ATOM	965	C	ASP	A	426	4.071	10.278 2.532	1.00	26.96
ATOM	966	0	ASP	A	426	4.974	11.030 2.900	1.00	27.20
ATOM	967	N	MET	A	427	3.978	9.022 2.947	1.00	25.76
ATOM	968	CA	MET	A	427				
ATOM	969					4.981	8.468 3.856	1.00	25.89
		CB	MET	A	427	4.567	7.070 4.309	1.00	21.17
ATOM	970	CG	MET	A	427	3.385	7.072 5.257	1.00	24.38
ATOM	971	SD	MET	A	427	3.153	5.489 6.080	1.00	34.32
MOTA	972	CE	MET	A	427	2.173	4.637 4.910	1.00	21.03

ATOM	973	С	MET	A	427	6.321	8.410 3.128	1.00	22.29 -
ATOM	974	Ó	MET	A	427	7.363	8.760 3.689	1.00	22,19
ATOM	975	N	LEU	A	428	6,285	7.985 1.868	1,00	21.75
ATOM	976	CA	LEU	A	428	7.506	7.892 1.075	1.00	22.91
atom	977	CB	LEU	A	428	7.202	7.252 -0.287	1.00	18.47
ATOM	978	ÇG	LEU	A	428	6.910	5.747 -0,176	1.00	19.24
ATOM	979	CDI	LEU	A	428	6.278	5.222 -1.468	1.00	16.82
ATOM	980	CD2	LEU	A	428	8.204	5.010 0.131	1.00	16.23
ATOM	981	C	LEU	A	428	8.148	9.269 0.902	1.00	23.98
ATOM	982	õ	LEU	A	428	9.366	9.416 1.034	1.00	23.06
ATOM	983	N	LEU	A	429	7.328	10.281 0.628	1.00	23.91
ATOM	984	CA	LEU	A	429	7.837	11.642 0.462	1.00	26.29
MOTA	985	CB	LEU	A	429	6.714	12.571 -0.003	1.00	27.47
ATOM	986	GE	LEU	Ā	429	6.331	12.411 -1.476	1.00	30.78
ATOM	987	CD1	LEU	A	429	5.022	13,139 -1.751	1.00	34.75
ATOM	988	CD2	LEU	A	429	7.449	12.952 -2.350	1.00	31.96
ATOM	989	6	LEU	A	429	8.425	12.166 1,776	1.00	25.83
ATOM	990	õ	LEU	A	429	9.482	12.808 1.793	1.00	26.42
ATOM	991	Ŋ	ALA	A	430	7.734	11.890 2.877	1.00	26.45
ATOM	992	CA	ALA	A	430	8.201	12.333 4.185	1.00	26.11
ATOM	993	CB	ALA	A	430	7.214	11.909 5.265	1.00	23.13
ATOM	994	€	ALA	A	430	9.577	11.742 4.462	1.00	25.01
ATOM	995	0	ALA	A	430	10.455	12.409 5.005	1.00	24.31
ATOM	996	N	THR	A	431	9.767	10.486 4.074	1.00	25.25
ATOM	997	CA	THR	A	431	11.046	9.825 4.294	1.00	22.78
ATOM	998	CB	THR	A	431	10.973	8.323 3.962	1.00	21.36
ATOM	999	QG1	THR	Α	431	9.924	7.727 4.727	1.00	20.27
MOTA	1000	CG2	THR	A	431	12.291	7.633 4.299	1.00	19.99
MOTA	1001	С	THR	A	431	12.103	10.477 3.429	1.00	23.73
MOTA	1002	0	THR	A	431	13.234	10.667 3.868	1.00	19.60
ATOM	1003	N	SER	A	432	11.736	10.819 2.197	1.00	24.32
ATOM	1004	CA	SER	A	432	12.676	11.479 1.301	1.00	26,96
MOTA	1005	CB	SER	A	432	12.067	11.650 -0.093	1.00	28.70
ATOM	1006	OG	SER	A	432	13.084	11.930 -1.039	1.00	33.42
MOTA	1007	C	SER	A	432	13.633	12.850 1.876	1.00	27.92
ATOM	1008	0	SER	A	432	14.176	13.294 1.779	1.00	30.78
ATOM	1009	N	SER	A	433	12.045	13.521 2.459	1.00	28.96
ATOM ATOM	1010 1011	CA CB	SER SER	A	433 433	12.269 10.957	14.824 3.076 15.387 3.623	1.00	34.21 35.07
ATOM	1012	OG	SER	A A	433	10.957	15.387 3.623 15.961 2.591	1.00 1.00	42.38
ATOM	1013	C	SER	A	433	13.263	14.644 4.223	1.00	33.43
ATOM	1014	0	SER	A	433	14,152	15.473 4.429	1.00	31.94
ATOM	1015	Ŋ	ARG	A	434	13.105	13.545 4.959	1.00	31.32
ATOM	1016	CA	ARG	A	434	13.980	13.236 6.086	1.00	29.78
ATOM	1017	CB	ARG	A	434	13.468	11.994 6.819	1.00	29.84
ATOM	1018	CG	ARG	A	434	14.331	11.541 7.983	1.00	32.17
ATOM	1019	CD	ARG	A	434	14.626	12.672 8.958	1.00	37.00
ATOM	1020	NE	ARG	A	434	15.321	12.169 10.140	1.00	39.44
ATOM	1021	CZ	ARG	Α	434	15.935	12.935 11.034	1.00	44.06
ATOM	1022	NHl	ARG	A	434	15.949	14.255 10.885	1.00	45.52
ATOM	1023	NH2	ARG	A	434	16.528	12.381 12.084	1.00	45.01
ATOM	1024	С	ARG	A	434	15.413	13.014 5.605	1,00	29.24
ATOM	1025	0	ARG	A	434	16.352	13.563 6.173	1.00	29.72
ATOM	1026	N	PHE	A	435	15.577	12.206 4.561	1,00	28.95
ATOM	1027	CA	PHE	A	435	16.901	11.935 4.000	1.00	30.59
MOTA	1028	CB	PHE	A	435	16.777	11.045 2.758	1.00	32.03
MOTA	1029	CG	PHE	A	435	16.795	9.563 3.051	1.00	31.88
ATOM	1030	CD1	PHE	A	435	16.758	9.084 4.359	1.00	35.60

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ATOM	1031	CD2	PHE	A	435	16.847	8.643	2,069	1.00	35.89
ATOM	1032		PHE	A	435	16.771	7,709	4.622	1.00	35.36
ATOM	1033		PHE	A	435	16.860	7.271	2.262	1.00	32.71
MOTA	1034	cz	PHE	A	435	16.821	6.807	3.570	1.00	33.24
ATOM.	1035		PHE	A	435	17.576	13.253	3.607	1.00	32.73
ATOM	1036		PHE	A	435	18.763	13.464	3.871	1.00	31.16
ATOM	1037		ARG	A	436	16.812	14.137	2.975	1.00	33.37
MOTA	1038	CA	ARG	A	436	17.341	15.429	3.549	1.00	39.13
MOTA	1039	CB CB	ARG	A	436	16.282	16.206	1.756	1.00	40.42
atom Atom	1040 1041	CD	arg arg	A	436 436	16.846	17.317	0.877	1.00	43.09
ATOM	1041	NE	ARG	A A	436	15.750 14.826	17.960	6.040 -0.472	1.00	44.53
ATOM	1043	CZ	ARG	A	436	13.530	16.913	-0.184	1.00	48.34 48.81
ATOM	1044	NH1	ARG	A	436	12.997	17.823	0.619	1.60	47.80
ATOM	1045	NH2	ARG	A	436	12.769		-0.687	1.00	49.53
ATOM	1046	C	ARG	A	436	17.792	16.250	3.753	1.00	38.10
ATOM	1047	O	ARG	A	436	_~ 18.896	16,789	3.764	1.00	41.00
ATOM	1048	N	MET	A	437	16.936	16.334	4.766	1.00	39.47
MOTA	1049	CA	MET	Α	437	17.257	17,087	5.975	1.00	38.20
atom	1050	CB	MET	A	437	16.102	16.998	6.965	1,00	39.79
ATOM	1051	C	MET	A	437	18.550	16.594	6.626	1.00	41.15
ATOM	1052	0	MET	A	437	19.303	17.378	7.201	1.00	40.20
ATOM	1053	N	MET	A	438	18.804	15.285	6.538	1.00	39.65
ATOM ATOM	1054 1055	CA CB	MET MET	A A	438 438	20.011 19.787	14.693	7.117	1.00	39.70
ATOM	1055	CG	MET	A	438	18.694	13.221 12.938	7.463 8.460	1.00	39.90 41.94
ATOM	1057	SD	MET	A	438	18.747	11.188	8,880	1.00	43.12
ATOM	1058	CE	MET	A	438	20.374	11.064	9.619	1.00	43.73
ATOM	1059	C	MET	A	438	21.176	14.756	6,142	1.00	38.03
ATOM	1060	0	MET	A	438	22.321	14.503	6.522	1.00	38.39
ATOM	1061	N	ASN	A	439	20.886	15.070	4.895	1.00	37,64
ATOM	1062	CA	asn	A	439	21.924	15.118	3.895	1.00	35.68
ATOM	1063	CB.	ASN	A	439	23.019	16,125	4.243	1.00	40.98
ATOM	1064	CG	asn	A	439	23.933	16.407	3,090	1.00	45.09
ATOM	1065	0D1	ASN	A	439	23.528	16.295	1.934	1.00	47.16
ATOM ATOM	1066 1067	ND2	ASN	A	439	25.197	16.733	3.372	1.00	46.87
ATOM	1067	С 0	asn Asn	A A	439 439	22.552 23.764	13.732 13.581	3.739 3.649	1.00	31.06 29.54
ATOM	1069	Ŋ	LEU	A	440	21.692	12.698	3.704	1.00	31.47
ATOM	1070	CA	LEU	A	440	22.161	11.326	3.579	1.00	31.63
ATOM	1071	СВ	LEU	A	440	20.991	10.344	3.380	1.00	33.05
ATOM	1072	CG	LEU	A	440	21.451	8,886	3.209	1.00	37.07
ATOM	1073	CD1	ĻEU	A	440	21.957	8.353	4.546	1.00	36.18
ATOM	1074	CD2	LEU	A	440	20.318	8.032	2.682	1.00	32.33
ATOM	1075	C	LEU	A	440	23.146	11.161	2.435	1.00	32.10
ATOM	1076	0	LEU	A	440	22.925	11.671	1.333	1.00	32.76
ATOM	1077	N	GLN	A	441	24.225	10.450	2.702	1.00	32.54
ATOM	1078	CA	GLN	A	441	25.255	10.220	1,699	1.00	31.97
ATOM	1079	CB	GLN	A	441	26.632	10.320	2.345	1.00	31.75
ATOM	1080	CG	GLN	A	441	26.896	11.669	2.979	1.00	35.56
ATOM ATOM	1081 1082	CD	GLN	A.	441	27.040	12.748	1.939	1.00	34.97
ATOM	1082	OE1 NE2	GLN GLN	A A	441 441	27.985 26.053	12.782 13.659	1.167 1.899	1.00	35.51
ATOM	1084	C	GLN	A	441	26.053 25.100	8.860	1.038	1.00	35.41 34.08
ATOM	1084	0	GLN	A	441	24.540		1.625	1.00	30.73
ATOM	1086	N	GLY	A	442	25.608	8.752		1.00	32.78
ATOM	1087	CA	GLY	A	442	25.528		-0.921	1.00	32.91
ATOM	1088		GLY	A	442	26.181		-0.184	1.00	31.87

MOTA	1089	0	GLY	A	442	25.642	5.245 -0.19	4 1.00	33.18
MOTA	1090	N	GLU	A	443	27.340	6.603 0.41		
ATOM	1091	CA	GLU	Ą	443	28.057	5.567 1.19	0 1.00	30.85
ATOM	1092	CB	GLU	A	443	29.376	6.111 1.76	4 1.00	32.74
ATOM	1093	CG	GLU.	A	443	30.425	6.378 0.64	6 1.00	36.30
ATOM	1094	CD	GLU	A	443	30.310	7.770 0.06	6 1.00	40.92
ATOM	1095	OE1	GLŲ	A	443	29.677	8.630 0.71	6 1.00	42.27
ATOM	1096	OE2	GLU	A	443	30.853	8.003 -1.03	8 1.00	46.82
ATOM	1097	C	GLU	A	443	27.206	5,048 2,25	9 1.00	30.43
ATOM	1098	0	GLU	A	443	27.211	3.854 2.59	5 1.00	28.11
ATOM	1099	N	GLU	A	444	26.482	5.955 2.94	8 1.00	30.26
ATOM .	1100	ÇA	GLU	A	444	25.619	5.589 4.0€	7 1.00	28.18
ATOM	1101	CB	GLU	A	444	25.147	6.843 4.79	7 1.00	26.32
MOTA	1102	CĞ	GĽU	A	444	26.250	7.633 5.46	3 1.00	29.27
MOTA .	1103	CD	GLU	A	444	25.748	8.944 6.02	3 1.00	29.62
ATOM	1104	OE1	GLU	A	444	25.006	9.652 5.36	4 1.00	32.00
ATOM	1105	OE2	GLU	A	444	26.088	9.268 7.18	2 1.00	29.02
MOTA	1106	C	GLU	A	444	24.403	4.813 3.57	2 1.00	26.93
ATOM	1107	0	GLU	A	444	23.970	3.841 4.19	1 1.00	24.78
ATOM	1108	И	PHE	A	445	23,861	5,256 2.44	3 1.00	27.79
ATOM	1109	CA	PHE	A	445	22.688	4.633 1.85	3 1.00	24.50
MOTA	1110	CB	PHE	A	445	22.254	5.416 0.61	0 1.00	25.40
ATOM	1111	CG	PHE	A	445	21.372	4.634 -0.31	6 1.00	23.74
ATOM	1112		PHE	Α	445	20.034	4.419 -0.00		23.00
ATOM	1113	CD2	PHE	A	445	21.885	4.094 -1.48		22.37
MOTA	1114	CE1	PHE	Α	445	19.215	3.670 -0.85		22.57
ATOM	1115	CE2	PHE	A	445	21.079	3.349 -2.34		21.69
ATOM	1116	CZ	PHE	A	445	19.741	3.138 -2.02		22.25
ATOM	1117	C	PHE	Α	445	22.913	3.169 1.48		22.81
ATOM	1118	0	PHE	A	445	22.083	2.316 1.79		22.92
ATOM	1119	N	VAL	A	446	24.019	2.868 0.82		22.46
ATOM	1120	CA	VAL	A	446	24.278	1.481 0.44		22.26
ATOM	1121	CB	VAL	A	446	25.522	1.360 -0.46		22.87
ATOM	1122	CG1	VAL	A	446	25.251	2.046 -1.79		22.57
ATOM	1123	CG2	VAL	A.	446	26.735	1.968 0.21		22.38
ATOM	1124	C	VAL	A	446	24.467	0.614 1.69		23.68
ATOM ATOM	1125 1126	O N	VAL	A	446	24.177	-0.586 1.68		22.91
			CYS	A	447	24,962	1.223 2.77		22.02
atom atom	1127 1128	CA CB	CYS CYS	A	447	25.155 25.953	0.503 4.02		24.17
ATOM	1129	SG	CYS	A	447 447		1.359 5.01 1.324 4.73		23.95 28.57
ATOM	1130	C.	CYS	A A	447	27.738 23.781	1.324 4.73 0.178 4.61		
ATOM	1131	0	CYS	A	447	23.512	-0.960 5.00		21.14 19.37
ATOM	1132	Ŋ	LEU	A	448	22.915	1.186 4.68		19.37
ATOM	1133	CA	LEU	A	448	21.568	1.002 5.21		21.31
ATOM	1134	CB	LEU	A	448	20.803	2.324 5.20		21.90
ATOM	1135	CG	LEU	A	448	21.142	3.337 6.30		26.61
ATOM	1136	CD1	LEU	A	448	20.328	4.594 6.07		27.74
ATOM	1137	CD2	LEU	A	448	20.827	2.760 7.67		24.03
ATOM	1138	C	LEU	A	448	20.766	-0.038 4.44		21.72
ATOM	1138	0	LEU	A	448	20.766	-0.803 5.03		20.87
ATOM	1139	N	LYS	A	449	20.006	-0.055 3.11		21.42
ATOM	1140	CA	LYS	A	449	20.929	-0.997 2.26		20.98
MOTA	1142	CB	LYS	A	449	20.203	-0.659 0.78		20.56
ATOM	1143	CG	LYS	A	449	19.438	-1.297 -0.17		24.82
ATOM	1144	CD	LYS	A	449	19.456	-0.613 -1.54		23.33
ATOM	1145	CE	LYS	A	449	20.816	-0.754 -2.22		23.58
ATOM	1146	NZ	LYS	A	449	20.741	-0.482 -3.69		28.77
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ATOM	1147	C	LYS	A	449	20.629	-2.436	2.548	1.00	20.33
ATOM	1148	0	L¥S	A	449	19.800	-3.345	2.552	1.00	20.57
ATOM	1149		SER	A	450	21.924	-2.637	2.777	1.00	19.25
MOTA	1150		SER	A	450	22.451	-3.965	3.074	1.00	21.84
ATOM	1151	CB	SER	A	450	23.982	-3.953	3.041	1.00	20.59
ATOM	1152	OG	SER	A	450	24.460	-3.975	1.702	1.00	29.78
ATOM	1153	C	SER	A	450	21.975	-4.408	4.454	1.00	21.58
ATOM	1154	0	SER	A	450	21.728	-5,590	4.682	1.00	20.06
ATOM	1155	N	ILE	A	451	21.853	-3.449		1.00	22.20
ATOM	1156	CA	ILE	A	451	21.385	-3.741		1.00	22,82
ATOM	1157	CB	ILE	A	451	21.452			1.00	19.62
ATOM	1158	CG2	ILE	A	451	20.593			1.00	21.11
ATOM	1159	ÇG1	ILE	A	451	22.909			1.00	22.20
ATOM	1160	CD1	ILE	A	451	23.115			1.00	24.48
ATOM	1161	C	ILE	A	451	19.952			1.00	21.82
ATOM	1162	0	ILE	A	451	19.575			1.00	21.72
ATOM	1163	N	ILE	A	452	19.152			1.00	20.18
ATOM	1164	CA	ILE	Α	452	17.763			1.00	18.13
ATOM	1165	CB	ILE	A	452	17.024			1.00	19.72
ATOM	1166	CG2	ILE	A	452	15.720			1.00	18.99
ATOM	1167	CG1	ILE	A	452	16.725			1.00	18.33
ATOM	1168	CD1	ILE	A	452	16.284			1.00	23.25
ATOM	1169	С	ILE	A	452	17.725			1.00	19.50
ATOM	1170		ILE	A	452	16.980		5.737	1.00	17.60
ATOM	1171	N	LEU	A	453	18.555		4.209	1.00	19.23
MOTA	1172	CA	LEU	A	453	18.589		3.679	1.00	21.60
ATOM	1173	CB	LEU	A	453	19.624	-7.316	2.554	1.00	21.50
ATOM	1174	CG	LEU	A	453	19.835	-8.729	1.989	1.00	25.06
ATOM	1175	CD1	LEU	A	453	18.550		1.364	1.00	25.27
ATOM	1176	CD2	LEU	A	453	20.948	-8.694	0.953	1.00	24.73
ATOM	1177	C	LEU	A	453	18.906	-8.245	4.746	1.00	19.41
ATOM	1178	0	LEU	A	453	18.198	-9.241	4.891	1,00	20.75
MOTA	1179	N	LEU	A	454	19.966	-7.997	5.499	1.00	21.35
MOTA	1180	CA	LEU	Ą	454	20.410	-8.925	6.530	1.00	23.67
ATOM	1181	CB	LEU	A	454	21.870	-8.625	6.878		20.69
MOTA	1182	CG	LEU	A	454	22.816	-8.584	5.673	1.00	24.92
MOTA	1183	CD1	LEU	A	454	24.222	-8.268	6.132	1.00	24.27
MOTA	1184	CD2	LEU	A	454	22.785	-9.913	4.952	1.00	22.84
MOTA	1185	C	LEU	A	454	19.572	-8.945	7.807	1.00	26.06
ATOM	1186	0	LEU	A	454	19.413	-9,997	8.438	1.00	27.44
MOTA	1187	N	ASN	A	455	19.011	-7.795	8.167	1.00	25.01
ATOM	1188	CA	ASN	A	455	18.240	-7.681	9.400	1.00	26.10
ATOM	1189	CB	ASN	A	455	18.439	-6.295	10.002	1.00	22.67
ATOM	1190	CG	ASN	A	455	17.627	-6.109	11.264	1.00	26.67
ATOM	1191	OD1	ASN	A	455	17.899	-6.751		1.00	25.16
ATOM	1192	ND2	ASN	A	455	16.615	-5.246		1.00	20.73
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ATOM	1194	0	ASN	A	455	16.230	-8.516		1.00	29.22
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ATOM	1196	CA	SER	A	456	14.578	-7.704		1.00	32.52
ATOM	1197	СВ	SER	A	456	14.019	-7.213	7.033	1.00	35.98
ATOM	1198	OG	SER	A	456	14.266	-5.818	6.897	1.00	30.88
ATOM	1199	C	SER	A	456	14.033	-9.086	8.711	1,00	33.00
ATOM	1200	0	SER	A	456	13.112	-9.202	9.523	1.00	33.07
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ATOM	1204	0	GLY	A	457	14.831	-13.486	9.456	1.00	38.20
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	ATOM	1222	0	TYR TYR	A A	459 459	13.649	-14.097 13.187 -15.099 13.852	1.00	71.86
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	ATOM	1228		THR	A	460		-16.866 10.912	1.00	80.82
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	MOTA	1250		THR	A	465	20.600	-26.036 17.212		93.79
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	ATOM	1252		THR	A	465		-25.085 16.634	1.00	93.27
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	ATOM	1347	CB	VAL	A	478	27.658	-9.605	8.100	1.00	28.00	
	ATOM	1348	CG1	VAL	A	478	27.672	-8.678	6.890	1.00	25.83	
	ATOM	1349	CG2	VAL	A	478	28.319	-10.933	7,761	1.00	31.66	
	ATOM	1350	С	VAL	A	478	27.689	-7.610	9.584	1.00	26.92	
	ATOM	1351	0	VAL	Α	478	28.216	-6,536	9.294	1,00	26.97	
	ATOM	1352	N	LEU	A	479	26.499	-7.702	10.171	1.00	25.74	
	ATOM	1353	CA	LEU	A	479	25.727	-6.516	10,530	1.00	27.97	
	MOTA	1354	CB	LEU	A	479	24.474	-6.912	11.324	1.00	25.55	
	MOTA	1355	CG	LEU	A	479	23.211	-7,229	10.517	1.00	29.01	
	MOTA	1356	CD1	LEU	A	479	22.056	-7.503	11.481	1.00	27.05	
	ATOM	1357		LEU	A	479	22.864	-6.063	9.584	1.00	24.92	
	ATOM	1358	C	LEU	A	479	26,592	-5.582	11.369	1.00	25.39	•
	ATOM	1359	0	LEU	A	479	26.595	-4.370		1.00	27.39	
	MOTA	1360	N	ASP	A	480	27.324	-6.158		1.00	26.04	
:	ATOM	1361	CA	ASP	A	480	28.206	-5.388		1.00	27,32	
	ATOM	1362	CB	ASP	A	480	28.878	-6.305		1.00	26.67	
	ATOM	1363	CG	ASP	A	480	27.990	-6.602		1.00	31.02	
	ATOM	1364	OD1	ASP	A	480	28.355	-7.505		1.00	31.50	
	ATOM	1365	OD2	ASP	A	480	26.935	-5.944		1.00	32.21	
	ATOM	1366	C	ASP	A	480	29.283	-4.699		1.00	25.59	
	ATOM	1367	0	ASP	A	480	29.672	-3.562		1.00	27.15	
	MOTA	1368	N	LYS	A	481	29.767	-5.394		1.00	25.17	
	ATOM	1369	CA	LYS	A	481	30.794	-4.830		1.00	24.93	
	ATOM	1370	CB	LYS	A	481	31.306	-5.890	9.512	1.00	28.42	
	ATOM	1371	CG	LYS	A	481	32.158	-6.953		1.00	35.59	
	ATOM	1372	CD ·	LYS	A	481	32.894	-7.799	9.157	1.00	41.21	
		1373	CE	LYS	A.	481	33,883	-6.963	8.350	1.00	41.48	
	ATOM	1374	NZ C	LYS	A N	481	34.954	-6.388	9.215	1.00	43.22	
	ATOM ATOM	1375 1376		LYS	A	481	30.260	-3.635	9.696	1.00	26.12	
	ATOM	1376	И О	LYS	A n	481	30.979	-2.657	9.463	1.00	23.73.	
	ATOM	1378	CA	ILE ILE	A	482 482	28.996	-3.705	9,291	1.00	25.44	
	WI OLI	T > 10	CA	ナガロ	A	402	28.421	-2.598	8.545	1.00	27.69 ·	

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ATOM	1379	СВ	ILE	A	482	27.066	-2.983 7.915	1.00	27.59
MOTA	1380	CG2	ILE	A	482	26.470	-1.788 7.183		25.97
ATOM	1381	CGI	ILE	A	482	27.274	-4.131 6.922		23.80
ATOM	1382	CD1	ILE	A	482	26.000	-4.838 6.533		21.30
MOTA	1383	C	ILE	A	482	28.253	-1.408 9.481		27.33
ATOM	1384	0	ILE	A	482	28.312	-0.256 9.045		28.55
ATOM	1385	N	THR	A	483	28.046	-1.690 10.768	1.00	25,03
ATOM	1386	CA	THR	A	483	27.905	-0.632 11.760	1,00	23.62
MOTA	1387	CB	THR	A	483	27.535	-1.192 13.154		22.18
ATOM	1388	061	THR	A	483	26.181	-1.658 13.133		25.39
MOTA	1389	CG2	THR	A	483	27.673	-0.111 14.226	1.00	25.84
ATOM	1390	C	THR	A	483	29.257	0.074 11.858		23.04
atom	1391	0	THR	A	483	29.331	1.306 11.846	1.00	23.55
MOTA MOTA	1392 1393	N	ASP	A	484	30.324	-0.714 11.960	1.00	22.24
ATOM	1394	CA CB	asp asp	A A	484 484	31.674 32.718	-0.152 12.039 -1.273 12.107	1.00 1.00	25.48 26.88
ATOM	1395	ÇG .	ASP	A	484	32.629	-2.083 13.394	1.00	32.52
ATOM	1396	OD1	ASP	A	484	32.002	-1.608 14.366	1.00	33.68
ATOM	1397	OD2	ASP	A	484	33.185	-3.198 13.434	1.00	34.63
ATOM	1398	С	ASP	A	484	31.930	0.715 10.807	1.00	25.16
ATOM	1399	0	ASP	A	484	32.481	1.812 10.905	1.00	26.05
ATOM	1400	N	THR	A	485	31.505	0.226 9.645	1.00	28.96
ATOM	1401	CA	THR	A	485	31,689	0.960 8.394	1.00	26.63
ATOM	1402	CB	THR	A	485	31.124	0.166 7.197	1.00	26.12
ATOM	1403	OG1	THR	A	485	31.753	-1.123 7.132	1.00	24.30
ATOM	1404	CG2	THR	A	485	31.381	0.907 5.898	1.00	23.31
ATOM	1405	C	THR	A	485	30.994	2.318 8.468	1.00	28.90
ATOM ATOM	1406 1407	O N	THR LEU	A A	485 486	31.583	3.354 8.137 2.310 8.915	1.00	27.26
ATOM	1408	CA	LEU	A	486	29.743 28.973	2.310 8.915 3.537 9.027	1.00 1.00	24.76 26.19
ATOM	1409	CB	LEU	A	486	27,567	3.233 9.547	1.00	27.27
ATOM	1410	CG	LEU	A	486	26.508	2.921 8.486	1.00	23.50
ATOM	1411	CD1	LEU	A	486	25.210	2.550 9.183	1.00	22.03
ATOM	1412	CD2	LEU	A	486	26.309	4.128 7.577	1.00	21.35
ATOM	1413	C	LEU	À	486	29.662	4.519 9.960	1.00	27.36
MOTA	1414	0	LEU	A	486	29.745	5.710 9.669	1.00	25.87
ATOM	1415	N	ILE	A	487	30.151	4.015 11.088	1.00	27.88
MOTA	1416	ÇA	ILE	A	487	30.843	4.857 12.055	1.00	28.40
ATOM	1417	CB	ILE	A	487	31.203	4.054 13.332	1.00	26.74
ATOM ATOM	1418 1419	CG2 CG1	ILE ILE	A	487	32.255	4.803 14.154	1.00	27.54
ATOM	1420	CD1	ILE	A A	487 487	29.937 29.237	3.813 14.163 5.088 14.624	1.00 1.00	25.93 23.42
ATOM	1421	C	ILE	A	487	32.125	5.393 11.412	1.00	28.89
ATOM	1422	ō	ILE .	A	487	32.497	6.554 11.602	1.00	29.85
ATOM	1423	N	HIS	A	488	32.791	4.533 10.649	1.00	29.71
ATOM	1424	CA	HIS	A	488	34.031	4.898 9.967	1.00	34.12
ATOM	1425	CB	HIS	A	488	34.585	3.691 9.207	1.00	36.61
ATOM	1426	CG	HIS	A	488	35.799	3.997 8.385	1.00	42.74
MOTA	1427	CD2	HIS	A	488	35.970	4.089 7.045	1.00	43.12
MOTA	1428	ND1	HIS	Α	488	37.034	4.239 8.946	1.00	43.13
ATOM	1429	CE1	HIS	A	488	37.913	4.466 7.987	1.00	43.40
MOTA	1430	NE2	HIS	A	488	37.293	4.381 6.825	1.00	45.63
MOTA	1431	С	HIS	A	488	33.799	6.051 8.998	1.00	32.74
ATOM	1432	0	HIS	A	488	34.577	7.004 8.955	1.00	31.06
ATOM ATOM	1433	N	LEU	A	489	32.721	5.958 8.223	1.00	33.56
MOTA	1434 1435	CA CB	LEU LEU	A N	489 489	32.384 31.145	6.992 7.258	1.00	30.78
ATOM	1435	CB	LEU	A A	489	31.145	6.587 6.464 5.353 5.574	1.00 1.00	34.67 34.73
017	T = 20	<u>_</u>	TEO	t.y	407	21.210	9.999 3.5/4	I. QU	J78 . / J

MOTA	1437		LEU	A	489	29.945	4.856		1.00	33,21
ATOM'	1438	CD2	LĒU	A	489	32.183	5.701		•	35.92
ATOM	1439		LEU	A	489	32.124	8.320		1.00	33.97
ATOM	1440	O	LEU	A	489	32.587	9.365		1.00	33.22
ATOM	1441	. N	MET	A	490	31.387	8.274		1.00	31.33
ATOM	1442	CA	MET	A	490	31.056	9.482	9.801	1.00	30.61
ATOM	1443	CB	MET	A	490	30.000	9.161	10.862	1,00	32.34
ATOM	1444	CG	MET	Ą	490	28.607	8.940	10.289	1.00	30.71
ATOM	1445	SD	MET	A	490	27,457	8.247	11.496	1.00	31.14
MOTA	1446	CE	MET	A	490	26.321	7.408	10.418	1.00	30.36
ATOM	1447	C	MET	A	490	32.287	10.108	10.455	1.00	32.22
ATOM	1448	0	MET	Α	490	32.412	11.330	10.517	1.00	28.25
MOTA	1449	N	ALA	A	491	33.184	9.262	10.949	1.00	33.81
MOTA	1450	CA	ALA	A	491	34.407	9.730	11.585	1,00	39.92
ATOM	1451	CB	ALA	A	491	35.168	8.554	12,185	1,00	37.22
ATOM	1452	C	ALA	A	491	35.275		10.550	1.00	42.68
ATOM	1453	O	ALA	A	491	35.865	11.487		1.00	45.32
ATOM	1454	N	LYS	A	492	35.339	9.876	9.347	1.00	44.39
ATOM	1455	CA	LYS	A	492	36.122	10.440	8.248	1.00	44.80
ATOM	1456	CB	LYS	A	492	36.136	9.477	7.052	1.00	46.96
ATOM	1457	CG	LYS	A	492	37.490	8.840	6.744	1.00	47.20
ATOM	1458	CD	LYS	A	492	37.390	7.830	5.595	1.00	45.71
ATOM	1459	CE	LYS	A	492	38.631	6.937	5.518	1.00	45.55
ATOM	1460	NZ	LYS	A	492	38.357	5.577	4.948	1.00	36.28
ATOM	1461	С	LYS	A	492	35.534	11.780	7.809	1.00	45.61
ATOM	1462	0	LYS	A	492	36.227	12.604	7.215	1.00	46.18
ATOM	1463	N	ALA	A	493	34,254	11,992	8.100	1.00	43.75
ATOM	1464	CA	ALA	Α	493	33.590	13.238	7.728	1.00	42.42
ATOM	1465	CB	ALA	A	493	32.097	13.001	7.528	1.00	40.92
ATOM	1466	С	ALA	A	493	33.816	14.305	8.796	1.00	41.78
ATOM	1467	0	ALA	A	493	33.277	15.410	8.707	1.00	40.76
ATOM	1468	N	GLY	A	494	34.604	13.960	9.811	1.00	41,01
ATOM	1469	CA	GLY	A	494	34.903	14.904		1.00	41.63
ATOM	1470	C	GLY	Α	494	33.857	15.060		1.00	41,18
ATOM	1471	0	GLY	A	494	33,916	16.011		1.00	38.22
ATOM	1472	N	LEU	Α	495	32.905	14.138		1.00	39.53
ATOM	1473	CA	LEU	Α	495	31.876	14.248		1.00	38.91
ATOM	1474	CB	LEU	. A	495	30.713	13.304		1.00	39.20
ATOM	1475	CG	LEU	A	495	29.540	13.901		1.00	40.73
ATOM	1476	CD1	LEU	A	495	29.976	14.170		1.00	37.80
ATOM	1477	CD2	LEU	Α	495	28,349	12.943		1.00	40.94
ATOM	1478	C	LEU	A	495	32.461	13,923		1.00	36.01
ATOM	1479	0	LEU	A	495	33.347	13.074		1.00	34.85
ATOM	1480	N	THR	A	496	31.979	14.604		1.00	37.52
ATOM	1481	CA	THR	A	496	32.462	14.350		1.00	35.45
ATOM	1482	CB	THR	A	496	31.925	15.375		1.00	37.55
ATOM	1483	OG1	THR	A,	496	30.498	15.263		1.00	32.93
ATOM		CG2	THR	A	496	32.315	16.797		1.00	36.16
ATOM	1485	c	THR	A	496	31.933	12.987		1.00	35.67
ATOM	1486	Ö	THR	A	496	31.081	12.427		1.00	34.34
ATOM	1487	N	LEU	A	497	32.429	12.452		1.00	34.88
ATOM	1488	CA	LEU	A	497	31.965	11.151		1.00	35.67
ATOM	1489	CB	LEU	A	497	32.689	10.760		1.00	41.10
ATOM	1490	CG	LEU	A	497	33.714	9.640		1.00	45.27
ATOM	1491	CD1	LEU	A	497	34.755		21.008		45.09
ATOM	1492	CD2	LEU	A	497	32.988		19.884	1.00	47.77
ATOM	1493	C	LEU	A	497	30.455	11.198		1.00	33.72
ATOM	1494	0	LEU	A	497	29.712	10.350		1.00	33.72
	7.27.2	_		~	4 .) /	49.112	10.350	16,274	1.00	JJ. 20

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ATOM	1495	N	GLN	A	498	30.006	12.202 19.773	1.00	30.82
ATOM	1496	CA	GLN	A	498	28.586	12.348 20.062		31.47
ATOM	1497		GLN	A	498	28.344	13.566 20.951		
ATOM	1498	ÇG	GLN	A	498	26.894	13.796 21.341		34.38
ATOM	1499		GLN	A	498	26.712	15.130 22.015		38.60
ATOM	1500	OE1	GLN	A	498	27.363	16.112 21.686		42.92
ATOM	1501	NE2	GLN	A	498	25.809	15.176 23.008		40.02
ATOM	1502	C	GLN	A	498	27.776	12.476 18.773		30.47
ATOM	1503	Ö	GLN	Α	498	26.682	11.927 18.665		30.85
ATOM	1504	N	GLN	A	499	28.311	13.196 17.793	1.00	29.52
ATOM	1505	CA	GLN	A	499	27.603	13.362 16.524	1.00	30.24
ATOM	1506	СВ	GLN	A	499	28.292	14.420 15.661	1.00	30.24
ATOM	1507	CG	GLN	A	499	28.135	15.840 16.191	1.00	31.60
ATOM	1508	CD	GLN	A	499	28.930	16.849 15.389		31.61
ATOM	1509	OE1	GLN	A	499	29,956	16.518 14.795	1.00	30.66
ATOM	1510	NES	GLN	A	499	28.457	18.089 15.364	1.00	34.17
ATOM	1511	C	GLN	A	499	27.529	12.047 15.753	1.00	29.40
ATOM	1512	0	GLN	A	499	26.567	11.793 15.032	1.00	30.04
ATOM	1513	N	GLN	A	500	28.550	11.793 15.032	1.00	
ATOM	1514	CA	GLN	A	500	28.577	9.937 15.216		25.67 29.30
ATOM	1515	CB	GLN	A	500	29.933	9.276 15.406	1.00	
MOTA	1516	CG	GLN	A	500	31.012	9.839 14.508	1.00	31.52 33.05
ATOM	1517	CD	GLN	A	500	32.371	9.370 14.930	1.00	
MOTA	1518	OE1	GLN	A	500	32.612	8.194 15.141	1.00	34.84 36.47
ATOM	1519	NE2	GLN	A	500	33.301	10.324 15.082	1.00	38.25
ATOM	1520	C	GLN	A	500	27.459	9.017 15.711	1.00	27,98
ATOM	1521	ō	GLN	A	500	26.700	8.469 14.908	1.00	24.84
ATOM	1522	N	HIS	A	501	27.357	8.864 17.029	1.00	26.20
ATOM	1523	CA	HIS	A	501	26.327	8.021 17.631	1.00	27.63
ATOM	1524	CB	HIS	A	501	26.535	7.919 19.145	1.00	27.97
ATOM	1525	CG	HIS	A	501	27.892	7.420 19.535	1.00	34.27
MOTA	1526	CD2	HIS	A	501	28.726	6.540 18.931	1.00	36.10
ATOM	1527	ND1	HIS	A	501	28.541	7.844 20.676	1.00	31.81
MOTA	1528	CE1	HIS	Α	501	29.716	7.244 20.758	1.00	34.89
ATOM	1529	NE2	HIS	Α	501	29.854	6.448 19.712	1.00	37.46
ATOM	1530	С	HIS	A	501	24.935	8.572 17.348	1.00	24.93
ATOM	1531	0	HIS	A	501	23.998	7.815 17.107	1.00	26.73
ATOM	1532	N	GLN	A	502	24.796	9.892 17.379	1.00	22.79
ATOM	1533	CA	GLN	A	502	23.504	10.498 17.119	1.00	26.14
ATOM	1534	CB	GLN	Α	502	23.554	12.006 17.371	1.00	22.36
MOTA	1535	CG	GLN	A	502	23.460	12.378 18.848	1.00	26.19
ATOM	1536	CD	GLN	A	502	23.589	13.875 19,089	1.00	28.67
ATOM	1537	OE1	GLN	A	502	23.632	14.663 18.149	1.00	28.40
ATOM	1538	NE2	GĻN	A,	502	23.651	14.268 20.355	1.00	24.72
ATOM	1539	С	GLN	A	502	23.056	10.221 15.685	1.00	26.19
ATOM	1540	0	GLN	Α	502	21.913	9.822 15.453	1.00	24.09
ATOM	1541	N	ARG	Α	503	23.955	10.429 14.727	1.00	24.88
MOTA	1542	CA	ARG	Α	503	23.630	10.196 13.326	1.00	25.25
AŢOM	1543	CB	ARG	A	503	24.772	10.668 12.418	1.00	27.63
ATOM	1544	CG	ARG	A	503	24.432	10.563 10.932	1.00	28.75
ATOM	1545	CD	ARG	A	503	25.479	11.222 10.056	1.00	27.72
ATOM	1546	NE	ARG	A	503	25.072	11.214 8.654	1.00	29.35
ATOM	1547	CZ	ARG	Α	503	24.279	12.126 8.105	1.00	25.84
ATOM	1548	NH1	ARG	Α	503	23.804	13.120 8.840	1.00	27.35
ATOM	1549	NH2	ARG	A	503	23.962	12.044 6.820	1.00	30.63
ATOM	1550	C	ARG	Α	503	23.347	8.716 13.065	1.00	24.53
ATOM	1551	0	ARG	A	503	22.425	8.375 12.321	1.00	25.90
ATOM	1552	N	LEU	Α	504	24.143	7.841 13.672	1.00	23.00

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	ATOM	1553	CA	LEU	A	504	23.953	6.406 13.496	1.00	22.60
	atom	1554	CB	LEU	A	504	24.971	5.621 14.323	1.00	25.43
	MOTA	1555		LEU	Д	504	24.781	4.100 14.344	1.00	25.23
	MOTA	1556		LEU	A	504	25.166	3.505 12.991	1.00	28.52
•	ATOM	1557		LEU	A	504	25.627	3.495 15.444	1.00	22.14
	MOTA	1558		LEU	A	504	22.541	6.030 13.934	1.00	22.84
	ATOM	1559		LEU	A	504	21.846	5.288 13.245	1.00	21.51
	ATOM	1560	N	ALA	A	505	22.120	6.547 15.083	1.00	20.16
	MOTA MOTA	1561	CA	ALA	A	505	20.784	6.262 15.585	1.00	21.08
	ATOM	1562 1563	CB C	ALA ALA	A	505 505	20.605	6.868 16.980	1.00	23,57
	ATOM	1564	0	ALA	A A	505 505	19.738	6.832.14.628	1.00	20.20
	ATOM	1565	И	GLN	A	506	18.754 19.954	6.164 14.293 8.066 14.184	1.00	17.31 22.11
	ATOM	1566	CA	GLN	A	506	19.013	8.711 13.277	1.00	21.70
	ATOM	1567	CB	GLN	A	506	19.502	10.111 12.903	1.00	22.26
	ATOM	1568	CG	GLN	A.	506	19.240	11.158 13.975	1.00	25.84
	ATOM	1569	CD	GLN	A	506	20.187	12.333 13.857	1.00	32.88
	ATOM	1570	OE1	GLN	A	506	20.704	12.614 12.777	1.00	31.23
	ATOM	1571	NE2	GLN	A	506	20.423	13.025 14.968	1,00	32.97
	ATOM	1572	C	GLN	Α	506	18.813	7.881 12.016	1.00	23.57
	MOTA	1573	0	GLN	A	506	17.684	7.715 11.550	1.00	21.83
	ATOM	1574	N	LEU	A	507	19.905	7.354 11.474	1.00	19.98
	ATOM	1575	CA	LEU	A	507	19.827	6.537 10.263	1.00	22.03
	ATOM ATOM	1576 1577	CB CG	LEU	A	507	21.231	6.244 9.725	1.00	23.02
	MOTA	1578	CD1	LEU LEU	A A	507 507	22.026	7.457 9.225	1.00	25.80
	MOTA	1579	CD2	LEU	A	507	23.371 21.264	6,994 8.713 8.176 8.130	1.00	27.67 25.62
	MOTA	1580	C	LEU	A	507	19.090	5.219 10.496	1.00	22.35
	ATOM	1581	Ö	LEU	A	507	18.242	4,825 9.695	1.00	19.33
	ATOM	1582	N	LEU	A,	508	19.402	4.539 11.592	1.00	21.29
	ATOM	1583	CA	LEU	A	508	18.755	3.260 11.881	1.00	20.72
	ATOM	1584	CB	LEU	A	508	19.501	2.535 13.001	1.00	22.29
	MOTA	1585	CG	LEU	A	508	20.977	2.311 12.678	1.00	24,70
	ATOM	1586	CD1	LEU	A	508	21.642	1.551 13.814	1.00	21.37
	ATOM	1587	CD2	LEU	A	508	21.095	1.542 11.367	1.00	27.88
	ATOM ATOM	1588 1589	С 0	LEU	A	508	17.279	3.396 12.239	1.00	19.14
	ATOM	1590	N	LEU	A A	508 509	16.498 16.895	2.478 12.003	1.00	17.80
	ATOM	1591	CA	LEU	A	509	15.495	4.530 12.815 4.747 13.173	1.00	19.23 20.14
	ATOM	1592	CB	LEU	A	509	15.347	6.030 13.999	1.00	20.14
	ATOM	1593	CG	LEU	A	509	15.710	5.858 15.479	1.00	21.35
	ATOM	1594	CD1	LEU	Α	509	15.354	7.106 16.263	1.00	19.29
	ATOM	1595	CD2	LEU	A	509	14.989	4.656 16.038	1.00	20.84
	ATOM	1596	C	LEU	A	509	14.681	4.841 11.885	1.00	21.69
	ATOM	1597	0	LEU	A	509	13.493	4.514 11.854	1.00	22.40
	MOTA	1598	N	ILE	A	510	15.343	5.270 10.815	1.00	20.22
	ATOM	1599	CA	ILE	A	510	14.710	5.397 9.508	1.00	20.40
	MOTA	1600	CB	ILE	A	510	15.720	5.946 8.464	1.00	28.34
	ATOM	1601	CG2	ILE	A	510	15.208	5.710 7.056	1.00	32.54
	ATOM ATOM	1602 1603	CG1 CD1	ILE ILE	A N	510 510	15.965	7.438 8.696	1.00	28.23
	ATOM	1604	CDI	ILE	A A	510 510	14.789 14.210	8,189 9.288	1.00	33.16
	ATOM	1605	0	ILE	A	510	13.120	4.025 9.049 3.906 8.474	1.00	23.21
	ATOM	1606	N	LEU	A	511	14.998	2.989 9.323	1.00	21.16 18.38
	MOTA	1607	CA	LEU	A	511	14.633	1.634 8.917	1.00	20.10
	ATOM	1608	CB	LEU	A	511	15.754	0.656 9.267	1.00	21.69
	ATOM	1609	CG	LEU	A	511	17.128	1.022 8.692	1.00	26.03
	ATOM	1610	CD1	LEU	Α	511	18.024	-0.206 8.724	1.00	22.68

MOTA	1611	CD2	LEU	A	511	16.996	1.544	7.267	1.00	26,00
ATOM	1612	C	LEU	A	511	13.326	1.181	9.543	1.00	18.51
MOTA	1613	0	LEU	A	511	12.663	0.283	9.025	1.00	17.40
MOTA	1614	N	SER	A	512	12.963	1.799	10.664	1.00	18.68
MOTA	1615	CA	SER	A	512	11.718	1.471	11.331	1.00	18.67
ATOM	1616	CB	SER	A	512	11.661	2.117	12.720	1.00	18.58
ATOM	1617	OG	SER	A	512	10.315	2.229	13.165	1.00	27.92
ATOM	1618	C	SER	A	512	10.572	1.994	10.464	1.00	18.43
ATOM	1619	0	SER	A	512	9.584	1.296	10.236	1.00	13.91
ATOM	1620	N	HIS	Α	513	10.713	3.228	9.982	1.00	18.95
MOTA	1621	CA	HIS	A	513	9.698	3.831		1.00	20.82
MOTA	1622	CB	HIS	A	513	10.013	5.315		1.00	24.36
ATOM	1623	CG	HIS	A	513	9.923		10.136	1.00	32.13
ATOM	1624	CD2	HIS	A	513	8.863		10.734	1.00	35.29
MOTA	1625	ND1	HIS	A	513	11.010		10.949	1.00	35.00
ATOM	1626	CE1	HIS	A	513	10.624		11.995	1.00	34.67
ATOM	1627	NE2	HIS	A	513	9.326		11.889	1.00	35.82
ATOM	1628	С	HIS	A	513	9.650	3.079	7.790	1.00	19.08
MOTA	1629	0	HIS	Α	513	8.575	2.863	7.220	1.00	21.20
MOTA	1630	N	ILE	A	514	10.809	2.662	7.297	1.00	15.58
ATOM	1631	CA	ILE	Α	514	10.849	1.921	6.038	1.00	16.48
ATOM	1632	CB	ILE	Α	514	12.312	1.678	5.576	1.00	20.09
ATOM	1633	CG2	ILE	A	514	12.349	0.602	4.499	1.00	19.55
ATOM	1634	CG1	ILE	A	514	12.891	2.986	5.019	1.00	22.62
ATOM	1635	CD1	ILE	A	514	14,393	2.992	4.874	1.00	27.34
ATOM	1636	C	ILE	A	514	10.112	0.590	6.210	1.00	16.40
MOTA	1637	0	ILE	Α	514	9.364	0.164	5.328	1.00	17.91
ATOM	1638	Ŋ	ARG	A	515	10.301	-0.071	7.347	1.00	18.20
ATOM	1639	CA	ARG	Α	515	9.585	-1.327	7.564	1.00	18.05
ATOM	1640	CB	ARG	A	515	9.984	-1.980	8.889	1.00	18.36
MOTA	1641	CG	ARG	Α	515	9.173	-3.237	9.213	1.00	17.84
MOTA	1642	CD	ARG	A	515	9.823	-4.470	8.606	1.00	17,94
ATOM	1643	NE	ARG	A	515	11.038	-4.813	9.334	1.00	26.96
MOTA	1644	CZ	ARG	A	515	11.406	-6.051	9.641	1.00	25.13
MOTA	1645	NH1	ARG	A	515	10.654	-7.080	9.281	1.00	23.49
MOTA	1646	NH2	ARG	A	515	12.511	-6.254	10.340	1.00	32.16
MOTA	1647	C	ARG	A	515	8.089	-1,020	7.594	1,00	18.29
ATOM	1648	0	ARG	A	515	7.275	-1.759	7.038	1.00	16.22
MOTA	1649	N	HIS	A	516	7.726	0.085	8.237	1.00	19.33
MOTA	1650	CA	HIS	A	516	6.317	0.441	8.330	1.00	17,78
MOTA	1651	CB	HIS	A	516	6.126	1.702	9.166	1.00	16.84
ATOM	1652	CG	HIS	A	516	4.692	2.101		1.00	18.16
ATOM	1653	CD2	HIS	A	516	3.967	3,061	8.691	1.00	21,17
ATOM	1654	ND1	HIS	A	516	3.830		10.180	1.00	20.70
ATOM	1655	CE1	HIS	A	516			10,089	1.00	21.52
ATOM	1656	NE2	HIS	A	516	2.689	2.992	9.191	1.00	20.16
ATOM	1657	С	HIS	A	516	5.708	0.659	6.954	1.00	16.63
ATOM	1658	0	HIS	A	516	4.598	0,216	6.689	1.00	18.58
MOTA	1659	N	MET	A	517	6.438	1.334	6.073	1.00	15.29
ATOM	1660	CA	MET	A	517	5.925	1.589	4.730	1.00	16.58
ATOM	1661	CB	MET	A	517	6.837	2.576	4.002	1.00	18.66
ATOM	1662	CG	MET	A	517	6.805	3.978	4.631	1.00	16.88
ATOM	1663	SD	MET	A	517	7.670	5.243	3.701	1,00	24.08
ATOM	1664	CE	MET	A	517	9.390	4.777	3.962	1.00	14.30
ATOM	1665	С	MET	A	517	5,773	0.289	3.940	1.00	17.86
ATOM	1666	0	MET	A	517	4.791	0.101	3.224	1.00	18.25
ATOM	1667	N	SER	A	518	6.741	-0.610	4.086	1.00	17.43
ATOM	1668	CA	SER	A	518	6.697	-1.896	3.403	1.00	18.40

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	ATOM	1669		SER	A	518	7.974	-2.695	3,680	1.00	16.77	
	ATOM	1670		SER	A	518	7.834	-4.630	3.227	1.00	24.23	
	ATOM	1671		SER	A	518	5.476	-2.695	3.954	1.00	17,91	
	atom atom	1672 1673		ser Asn	A A	518 519	4.788 5.204	-3.295	3,030	1.00	18.97	
	ATOM	1674		asn	A	519	4.047	-2.697 -3.418	5.159 5.696	1.00	21.82 21.99	
	ATOM	1675		ASN	A	519	3.957	-3.257	7.216	1.00	23.24	
	ATOM	1676		ASN	A	519	5.046	-4.011	7.957	1.00	31.14	
	ATOM	1677		ASN	A	519	5.585	-4.999	7.461	1.00	32.50	
	MOTA	1678	ND2	ASN	A	519	5.368	-3.545	9.163	1.00	29,10	
	ATOM	1679		ASN	A	519	2.761	-2.871	5.079	1.60	23.76	
	ATOM	1680	O	ASN	A	519	1.902	-3.632	4.631	1.00	24.48	
	ATOM	1681	N	LYS	A	520	2.627	-1.548	5.078	1.00	20.58	
	MOTA	1682	CA	LYS	Α	520	1.449	-0.900	4.512	1.00	25.49	
	ATOM	1683	CB	Lys	A	520	1.484	0.607	4.786	1.00	24.73	
	MOTA	1684	CG	LYS	A	520	1.512	0.996	6.264	1.00	32.31	
	MOTA	1685	CD	LYS	A	520	0.656	0.080	7,133	1.00	37.11	
	ATOM	1686	CE	LYS	A	520	-0.787	0.547	7.181	1.00	41.56	
	MOTA	1687	NZ	LYS	A	520	-1.560	-0.134	8.261	1.00	42.66	
	ATOM	1688	C	LYS	A	520	1.380	-1,144	3.005	1.00	25.40	
	ATOM ATOM	1689 1690	N O	LYS GLY	A	520	0.316	-1.436	2.467	1.00	26.44	
	ATOM	1691	CA	GLY	A A	521 521	2.520	-1.021	2.332	1.00	22.88	
	ATOM	1692	C	GLY	A	521	2.561 2.177	-1.236 -2.655	0.897 0.536	1.00	21.53 24.79	
	ATOM	1693	0	GLY	A	521	1.426	-2.878		1.00	25.71	
	ATOM	1694	N	MET	A	522	2,696	-3.619	1.290	1.00	22.75	
	ATOM	1695	CA	MET	A	522	2.393	-5,027	1.058	1.00	23.40	•
	ATOM	1696	CB	MET	A	522	3.170	-5.898	2.042	1.00	25.74	
	ATOM	1697	CG	MET	A	522	3.396	-7.308	1.559	1.00	31.06	
	ATOM	1698	SD	MET	A	522	4.572	-7.352	0.202	1.00	34.06	
	MOTA	1699	CE	MET	·A	522	6.125	-7.229	1.113	1.00	29,28	
	MOTA	1700	C	MET	A	522	0.893	-5.281	1.218	1.00	26.49	
	ATOM	1701		MET	A	522	0.268	-5.920	0.361	1.00	25.47	
	ATOM	1702		GLU	A	523	0.321	-4.790	2.318	1.00	24.95	
	ATOM	1703	CA	GLU	A	523	-1.110	-4.954	2.566	1.00	27,15	
	ATOM	1704		GLU	A	523	-1.555	-4.206	3.835	1,00	31.08	
	ATOM	1705	CG	GLU	A	523	-0.830	-4.564		1.00	38.93	
	ATOM ATOM	1706 1707	CD OF1	GLU	A A	523 523	-1.153	-3.585	6.258	1.00	46.90	
	ATOM	1708		GLU	A	523	-2.225 -0.337	-2.938 -3.460	6.200 7.202	1.00	47.40 47.39	
	ATOM	1709		GLU	A	523	-1.872	-4.368	1.381	1.00	26.10	
	ATOM	1710		GLU	A	523	-2.817	-4.964	0.882	1.00	24.25	
	ATOM	1711		HIS	A	524	-1.449	-3.182		1.00	24.74	
	ATOM	1712		HIS	A	524	-2.093	-2.505		1.00	26.17	
	ATOM	1713	СВ	HIS	A	524	-1.481	-1.125		1.00	24.64	
	MOTA	1714	CG	HIŞ	Α	524	-2.233	-0.278	-1.355	1.00	30.59	
	MOTA	1715	CD2	HIS	Α	524	-3.227	0.624	-1.172	1.00	32.15	
	MOTA	1716	ND1	HIS	Α	524	-2.008	-0.332	-2.713	1.00	27.46	
	MOTA	1717		HIS	A	524	-2.829	0.502	-3.326	1.00	34.58	
	ATOM	1718		HIS	A	524		1.094		1.00	30.50	
	ATOM	1719		HIS	A	524	-1.996	-3,294		1.00	28.06	
	ATOM	1720		HIS	A	524	-2.976	-3.419		1.00	29.81	
	MOTA	1721		LEU	A	525	-0.811	-3.824		1.00	27.07	
	ATOM	1722		LEU	A	525 525	-0.594	-4.601		1.00	29.30	
	ATOM ATOM	1723 1 7 24	CB CG	LEU LEU	A	525 525	0.865	-5.039		1.00	26.39	
	ATOM	1724		LEU	A A	525 525	1.307 0.734	-5.765 ·		1.00	29.34 29.61	
•	ATOM	1726		LEU	A	525 525	2.829	-5.769			29.81	
							2.322	2.,05				

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	N TOM	1727	_	LEU	A	525	-1.497 -5.822 -2.950 1.00 31.67 -
	mota Mota	1728	0	LEU	A	525 525	-1.497 -5.822 -2.950 1.00 31.67 - -2.128 -6.133 -3.957 1.00 32.45
	MOTA	1729	N	TYR	A	526	-1.559 -6.512 -1.814 1.60 36.14
	ATOM	1730		TYR	A	526	-2.397 -7.698 -1.696 1.00 40.36
	ATOM	1731	CB	TYR	A	526	-2.221 -8.350 -0.324 1.00 45.27
	ATOM	1732	CG	TYR	A	526	-2.849 -9.722 -0.229 1.00 50.62
	ATOM	1733	CD1	TYR	A	526	-2.114 -10.867 -0.537 1.00 54.55
	ATOM	1734	CEl	TYR	A	526	-2.698 -12.136 -0.482 1.00 57.27
	MOTA	1735	CD2	TYR	A	526	-4.188 -9.876 0.142 1.00 53.48
	ATOM	1736	CE2	TYR	A	526	-4.781 -11.141 0,201 1.00 55.93
	ATOM	1737		TYR	A	526	-4.029 -12.264 -0.113 1.00 56.60
	MOŢA	1738	ОH	TYR	A	526	-4.603 -13.515 -0.063 1.00 60.70
	ATOM	1739	C	TYR	A	526	-3.852 -7.298 -1.893 1.00 42.83
	ATOM	1740	O	TYR	A	526	-4.673 -8.094 -2.349 1.00 43.49
	ATOM	1741	N	SER	A	527	-4.158 -6.055 -1.543 1.00 41.55
	MOTA	1742	CA	SER	A	527	-5.503 -5.523 -1.686 1.00 44.04
	ATOM	1743	CB	SER	A	527	-5.606 -4.169 -0.979 1.00 43.47
	MOTA MOTA	1744 1745	og C	ser Ser	A A	527 527	-6.954 -3.789 -0.786 1.00 47.51
	ATOM	1746	0	SER	A A	527 527	-5.817 -5.356 -3.172 1.00 44.18 -6.883 -5.757 -3.642 1.00 44.88
	ATOM	1747	N	MET	A	528	-4.883 -4.755 -3.901 1.00 41.79
	ATOM	1748	CA	MET	A	528	-5.047 -4.536 -5.331 1.00 44.04
	ATOM	1749	CB	MET	A	528	-3.898 -3.679 -5.870 1.00 44.78
	ATOM	1750	CG	MET	A	528	-3.965 -2.206 -5.468 1.00 45.37
	ATOM	1751	ŞD	MET	· A	528	-5.652 -1.598 -5.273 1.00 51.83
	ATOM	1752	CE	MET	A	528	-5.553 -0.004 -6.044 1.00 46.61
	MOTA	1,753	C	MET	A	528	-5.087 -5.871 -6.071 1.00 44.29
	ATOM	1754	0	MET	A	528	-5.689 -5.979 -7.137 1.00 44.02
	ATOM	1755	N	LYS	A	529	-4.443 -6.883 -5.499 1.00 46.78
	MOTA	1756	CA	LYS	A	529	-4.413 -8.213 -6.099 1.00 51.28
	ATOM ATOM	1757	CB	LYS	A	529 529	-3.550 -9.158 -5.261 1.00 50.87
	MOTA	1758 1759	CD CD	LYS LYS	A A	529 520	-2.798 -10.204 -6.071 1.00 50.55
	ATOM	1760	CE	LYS	A	529 529	-3.548 -11.520 -6.104 1.00 51.25 -2.616 -12.694 -5.856 1.00 53.22
	ATOM		NZ	LYS	A	529	-2.420 -12.954 -4.402 1.00 53.22
	ATOM	1762	Ç	LYS	A	529	-5.829 -8.768 -6.182 1.00 54.27
	ATOM		o .	LYS	A	529	-6.325 -9.069 -7.266 1.00 55.50
•	ATOM	1764	N	CYS	A	530	-6.472 -8.901 -5.027 1.00 56.71
	AŢOM	1765	CA	CYS	A	530	-7.833 -9.416 -4.961 1.00 58.35
	ATOM	1766	CB	CYS	A	530	-8.333 -9.380 -3,517 1.00 59.78
	ATOM	1767	SG	CYS	A	530	-7.289 -10.304 -2.358 1.00 63.19
	ATOM	1768		CYS	Α .	530	-8.766 -8.609 -5.858 1.00 59.36
	MOTA	1769		CYS	A	530	-9.644 -9.169 -6.514 1.00 59.52
	ATOM	1770		LYS	A	531	-8.569 -7.293 -5.888 1.00 59.24
	ATOM ATOM	1771 1772		LYS LYS	A	531 531	-9.390 -6.411 -6.713 1.00 60,14
•	ATOM	1773		LYS	A A	531 531	-9.158 -4.952 -6.317 1.00 58.92 -9.073 -6.615 -8.195 1.00 61.48
	ATOM	1774		LYS	A	531 ⁻	-9.618 -5.928 -9.061 1.00 61.74
	MOTA		N	ASN	A	532	-8.179 -7.561 -8.474 1.00 61.65
	ATOM		CA	ASN	A	532	-7.783 -7.890 -9.840 1.00 61.60
	ATOM	1777	CB	ASN	A	532	-8.966 -8.518-10.581 1.00 62.28
•	ATOM	1778	CG	ASN	A	532	-8.750 -9.985-10.878 1.00 64.66
	MOTA	1779	OD1	ASN	A	532	-8.344 -10.352-11.983 1.00 67.08
	ATOM	1780		ASN	A	532	-9.016 -10.836 -9.891 1.00 62.68
	ATOM	1781		ASN	A	532	-7.247 -6.710-10.648 1.00 59.75
	ATOM	1782		ASN	A	532	-7.487 -6.615-11.850 1.00 57.50
	MOTA	1783		VAL	A	533	-6.507 -5.822 -9.992 1.00 59.39
	ATOM	1784	CA	VAL	A	533	-5.954 -4.656-10.669 1.00 58.22

MOTA	1785	CB	VAL	A	533	-6.223	-3.371 -9.865	1.00	59.20
mota	1786	CG1	VAL	A	533	-6.181	-2.163-10.785	1.00	59.21
Atom	1787	CG2	VAL	A	533	-7.574	-3.467 -9.172	1,00	59.57
ATOM	1788	С	VAL	A	533	-4.452	-4.767-10.907	1.00	57.86
Mota	1789	0	VAL	A	533	-3.846	-3.874-11.499	1.00	60.56
MOTA	1790	N	VAL	A	534	-3.852	-5.863-10.451	1.00	56.03
MOTA	1791	CA	VAL	A	534	-2.417	-6.063-10.621	1.00	54.11
MOTA	1792	CB	VAL	A	534	-1.767	-6,632 -9.341	1.00	54.02
MOTA	1793	CG1	VAL	A	534	-0.300	-6.950 -9.601	1.00	52.37
MOTA	1794	CG2	VAL	A	534	~1.900	-5.635 -8.200	1.00	55,70
MOTA	1795	C	VAL	A	534	-2.089	-7.008-11.770	1.00	54.31
ATOM	1796	Ø	VAL	A	534	-2.519	-8.164-11.780	1.00	51.66
MOTA	1797	N	PRO	A	535	-1.315	-6.527-12.755	1.60	53.54
ATOM	1798	CD	PRO	A	535	-0.749	-5.172-12.874	1.00	54.28
ATOM	1799	CA	PRO	A	535	-0.949	-7.373-13.893	1.00	53.24
ATOM	1800	CB	PRO	A	535	0.011	-6.500-14.697	1.00	52.71
ATOM	1801	CG	PRO	A	535	-0.353	-5.102-14.319	1.00	53.19
MOTA	1802	C	PRO	A	535	-0,296	-8.664-13.411	1.00	54.25
ATOM	1803	0	Pro	A	535	0.121	-8.768-12.254	1.00	54.56
MOTA	1804	N	LEU	A	536	-0.203	-9.645-14.299	1.00	53.63
MOTA	1805	CA	LEU	A	536	0.382	-10.926-13.937	1.00	53.11
ATOM	1806	CB	LEU	Α	536	-0.250	-12.046-14.763	1,00	51.88
MOTA	1807	CG	LEU	A	536	-0.686	-13.256-13.938	1.00	51.83
MOTA	1808	CD1	LEU	A	536	-1.953	-12.917-13.173	1.00	49.51
ATOM	1809	CD2	LEU	Α	536	-0.905	-14.449-14.854	1.00	53.43
ATOM	1810	C	LEU	A,	536	1.895	-10.990-14.081	1.00	52.58
ATOM	1811	0	LEU	A	536	2.414	-11,501-15,075	1.00	55.33
MOTA	1812	N	TYR	A	537	2.601	-10.462-13.087	1.00	48.72
MOTA	1813	CA	TYR	A	537	4.057	-10.501-13.093	1,00	44.22
ATOM	1814	CB	TYR	A	537	4.627	-9.134-12.709	1.00	44.52
MOTA	1815	CG	TYR	A	537	4.331	-8,053-13.731	1.00	45,18
ATOM	1816	CD1	TYR	A	537	3.623	-6.905-13.376	1.00	43.77
MOTA	1817	CEl	TYR.	A	537	3.334	-5.915-14.317	1.00	45.23
ATOM	1818	CD2	TYR	A	537	4.747	-8.187-15.058	1.00	46.91
MOTA	1819	CE2	TYR	A	537	4.462	-7.202-16.008	1.00	43.93
ATOM	1820	CZ	TYR	A	537	3.757	-6.071-15.631	1.00	46.70
ATOM	1821	OH	TYR	A	537	3.472	-5.097-16.565	1.00	48.35
MOŢA	1822	e	TYR	A	537		-11.562-12.056	1.00	41.29
ATOM	1823	0	TYR	A	537		-11.319-10.856	1.00	41.82
ATOM	1824	N	ASP	A	538	4.748	-12.748-12.540	1.00	40.34
MOTA	1825	CA	ASP	A	538	5.055	-13.896-11.691	1.00	38.84
ATOM	1826	CB	ASP	A	538	5.594	-15.037-12.554	1.00	43.47
ATOM	1827	CG	ASP	A	538	4.571	-15.531-13.566	1.00	47.67
ATOM	1828	OD1	ASP	A	538	4.931	-16.373-14.416	1.00	49.33
ATOM	1829	OD2	ASP	A	538		-15.073-13.511	1.00	48.07
MOTA	1830	C	ASP	A	538	5.991	-13.676-10.508	1.00	37.28
ATOM	1831	0	ASP	A	538	5.620	-13.964 -9.371	1.00	38.55
ATOM	1832	N	LEU	A	539	7.196		1.00	33.83
MOTA	1833	CA	LEU	A	539	8.155	-12.959 -9.692	1.00	32.80
ATOM	1834	CB	LEU	A	539	9.419	-12.323-10.263	1.00	32.78
ATOM	1835	CG	LEU	A	539	10.561	-12.031 -9.292	1.00	30.93
ATOM	1836	CD1	LEU	A	539		-13.280 -8.492	1.00	33,81
ATOM	1837	CD2	LEU	A	539	11.758	-11,538-10,077	1.00	25.92
ATOM	1838	C ·	LEU	A	539	7.558	-12.050 -8.614	1.00	31.85
ATOM	1839	0	LEU	A	539	7.590	-12.367 -7.423	1.00	25.63
ATOM	1840	N	LEU	A	540	7.011	-10.917 -9.042	1.00	32.07
ATOM	1841	CA	LEU	A	540	6.411	-9.976 -8.111	1.00	31.03
MOTA	1842	CB	LEU	A	540	5.792	-8.800 -8.861	1.00	30.56

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2004	2042	~~	* ****	<u>.</u> .	240		7 774 7	0.45			
ATOM	1843		LEU	A	540 540	5.124			1.00	31.12	• •
ATOM ATOM	1844	CD1	LEU	A	540	6.092			1.00	29.76	
MOTA	1845		LEU	A	540 540	4.693			1.00	30.85	•
ATOM	1847		LEU	A A	540 540		-10.660 -7 -10.522 -6		1.00	34.55	
ATOM	1848		LEU	A A	541		-10.522 -6		1.00	31.60	
ATOM			LEU	A	541		-12.101 -7		1.00	35.64	
ATOM	1850		LEU	A	541		-12.771 -8		1.00	37.84	
ATOM	1851	CG	LEU	A	541		-11.932 -8		1.00	38.49 39.80	
ATOM	1852	CD1	LEU	A	541		-11.476 -7		1.00	40.02	
ATOM	1853		LEU	A	541		-10.733 -9		1.00	40.48	
ATOM	1854		LEU	A	541		-13.147 -6		1.00	40.10	
ATOM	1855		LEU	A	541		-13.254 -5		1,00	42.72	
ATOM	1856		GLU	A	542		-13.915 -6		1.00	38.45	
ATOM	1857		GLU	A	542		-14.932 -5		1.00	39.59	
ATOM	1858	CB	GLU	A	542		-15.566 -6		1.00	41,73	
ATOM	1859	CG	GLU	A	542		-16.327 -7		1.00	48.34	
ATOM	1860	CD	GLU	A	542		-17,747 -7		1.00	52.57	
ATOM	1861	OE1	GLU	A	542		-17.961 -7		1.00	52.70	
ATOM	1862	OE2	GLU	A	542	6.230	-18.647 -8	.331	1.00	53.69	
ATOM	1863	C	GLU	Α	542	5.989	-14.299 -4	.553	1.00	39.94	
ATOM	1864	0	GLU	A,	542	5.567	-14.710 -3	.472	1.00	40.99	
ATOM	1865	N	MET	A	543	6.844	-13.287 -4	,663	1.00	38.29	
MOTA	1866	CA	MET	Α	543	7.380	-12.580 -3	.503	1.00	38.11	
ATOM	1867	CB	MET	A	543		-11.408 -3		1.00	37.34	
MOTA	1868	CG	MET	A	543		-11.797 -4		1.00	40.59	
MOTA	1869	SD	MET	A	543		-12.223 -4		1.00	45.64	
ATOM	1870	CE	MET	A	543		-11.399 -5		1.00	42.61	
ATOM	1871	C	MET	A	543		-12.064 -2		1.00	37.94	
ATOM	1872		MET	A	543		-12.127 -1		1.00	39.20	
ATOM	1873	N	LEU	A	544		-11.544 -3		1.00	39.44	
MOTA MOTA	1874 1875	CA	LEU	A	544		-11.013 -2		1.00	40.91	
ATOM	1876	CB CG	LEU	A	544		-10.344 -3		1.00	39.88	
ATOM	1877		LEU	A A	544 544	1.775 2.060	-9.905 -2 -8.886 -1		1.00	42.70	
ATOM	1878	CD2	LEU	A	544	0.854				37.35 38.47	
ATOM	1879		LEU	A	544		-12.120 -1		1.00	42.83	
ATOM	1880		LEU	A	544		-11.899 -0		1.00	42.73	
ATOM	1881		ASP	A	545		-13.313 -2		1.00	46.32	
ATOM	1882		ASP	A	545		-14.456 -1		1.00	50.65	
ATOM	1883	CB	ASP	A	545		-15.617 -2		1.00	53.67	
MOTA	1884		ASP	Α	545		-15,278 -3		1.00	57.35	
ATOM	1885	OD1	ASP	A	545		-14.568 -3		1,00	59.99	
ATOM	1886	OD2	ASP	A	545		-15.718 -4.		1.00	59.68	
MOTA	1887	С	ASP	A	545	3.559	-14.898 -0.	327	1.00	50.74	
ATOM	1888	0	ASP	A	545	3.004	-15.388 0.	657	1.00	49.39	
ATOM	1889	N	ALA	A	546	4.874	-14.723 -0.	401	1.00	51.82	
ATOM	1890		ALA	Α	546	5.750	-15.095 0.	702	1.00	53.12	
ATOM	1891		ALA	Α	546	7.180	-14.678 0.	.395	1.00	53.19	
ATOM	1892		ALA	Α	546			987	1.00	54.67	
ATOM	1893		ALA	A	546			.085	1.00	52.32	
ATOM	1894		HIS	A	547			838	1.00	56.66	
ATOM	1895		HIS	A	547			978	1.00	59.19	
ATOM		СВ	HIS	A	547			684	1.00	56.70	
ATOM		CG	HIS	A	547			896	1.00	54.64	
ATOM		CD2	HIS	A	547			199	1.00	53.92	
ATOM	1899		HIS	A	547	5.748		925	1.00	52.17	
ATOM	1900	CEI	HIS	A	547	7.004	-9.111 3.	853	1.00	52.16	

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MOTA	1901	NE2	HIS	A	547	7.570	-9.698	2.814	1.00	51.90
ATOM	1902	C	HIS	A	547	2.668	-12.940	3.306	1.00	62.77
MOTA	1903	0	HIS	A	547	1.842	-12.120	3.707	1.00	63.24
MOTA	1904	N	ARG	A	548	2.381	-14.224	3.133	1.00	68.37
ATOM	1905	CA	ARG	A	548	1.053	-14.758	3.411	1.00	72.75
MOTA	1906	CB	ARG	A	548	0.243	-14.864	2.113	1.00	73.73
ATOM	1907	CG	ARG	A	548	-1.149	-14.243	2.186	1.00	74.04
MOTA	1908	CD	ARG	A	548	-1.081	-12.728	2.297	1.00	74,50
MOTA	1909	NE	ARG	A	548	-2,305	-12.167	2.863	1.00	75.04
ATOM	1910	CZ	ARG	A	548	-2.478	-10.880	3.149	1.00	75.59
ATOM	1911	NH1	ARG	A	548	-1.506	-10,006	2.919	1.00	75.79
MOTA	1912	NH2	ARG	A	548	-3.627	-10.464	3.662	1.00	76.00
MOTA	1913	C	ARG	A	548	1.179	-16.133	4.061	1.00	74.94
ATOM	1914	0	ARG	A	548	0.197	-16.697	4.549	1.00	75.15
ATOM	1915	N	LEU	A	549	2.398	-16.665	4.063	1.00	76.49
ATOM	1916	CA	LEU	A	549	2.669	-17.969	4.653	1.00	78.14
ATOM	1917	CB	LEU	A	549	2.971	-18.986	3,557	1.00	77,55
ATOM	1918	C	LEU	A, `	549	3.846	-17.870	5.619	1.00	79.13
ATOM	1919	0	LEU	A	549	4.892	-17.317	5,215	1.00	80.40
ATOM	1920	OXT	LEU	A	549	3.708	-18.341	6.769	1.00	79.46
HETATM	1921	CP9	DES	A	600	5.390	-3.061		1.00	21.38
HETATM	1922	CP8	DES	A	600	5.834	-1.989		1.00	22.41
HETATM	1923	CP7	DES	A	600	5.038	-0.714		1.00	21.32
HETATM	1924	CP6	DES	A	600	3.587	-0.864		1.00	25.87
HETATM	1925	CP1	DES	A	600	2.987	-0.978		1.00	23.92
HETATM	1926	CP2	DES	A	600	1.597	-1.150		1.00	29.77
HETATM	1927	CP3	DES	A	600	0.842	-1.214		1.00	31.40
HETATM	1928	OP3	DES ·	A	600	-0.506			1.00	33.36
HETATM	1929	CP4	DES	A	600	1.421	-1.099		1.00	27.01
HETATM	1930	CP5	DES	A .	600	2.793	-0.929		1.00	27.40
HETATM	1931	C7	DES	A	600	5.671	0.461		1,00	22.39
HETATM HETATM	1932	C6 C5	DES	A	600 600	7.113	0.561		1.00	21.75
HETATM	1933 1934	C4	DES DES	A A	600	7.541 8.889	0.306		1.00	19.97 23.81
HETATM	1935	C3	DES	A	600	9.814	0.804		1.00	23.81
HETATM	1936	03	DES	A	600	11.125	0.804		1.00	22.32
HETATM	1937	C2	DES	A	600	9.423	1.066		1.00	19.74
HETATM	1938	Cl	DES	A	600	8.066	0.937		1.00	21.25
HETATM	1939	C8	DES	A	600	4.894	1,765		1.00	21.47
HETATM	1940	C9	DES	A	600	4.959	2.468		1.00	21.38
HETATM	1941	CL	CL	A	601	14.781	-3.035-		1.00	24.10
ATOM	1942	CB	SER	В	305	12.321	21.086		1.00	64.27
MOTA	1943	C	SER	В	305	12.672	22.102		1.00	64.37
ATOM	1944	0	SER	В	305	13.701	22.760		1.00	66.90
ATOM	1945	N	SER	В	305	12.045	23.521		1.00	63.72
ATOM	1946	CA	SER	В	305	11.875	22.187		1.00	64.21
ATOM	1947	N	LEU	В	306	12.193	21.293		1.00	63.09
ATOM	1948	CA	LEU	В	306	12.884	21.133		1.00	60.98
ATOM	1949	CB	LEU	В	306	11.884	21.200		1.00	61.23
ATOM	1950	CG	LEU	В	306	12.221	20.417		1.00	62.23
ATOM	1951	CD1	LEU	В	306	13.304	21.144		1.00	62.56
ATOM	1952	CD2	LEU	В	306	10.965	20.258		1.00	64.31
ATOM	1953	C	LEU	В	306	13.660	19.819		1.00	58.39
ATOM	1954	ō	LEU	В	306	14.570	19.654		1.00	58.56
ATOM	1955	N	ALA	В	307	13.293	18.881		1.00	54.82
ATOM	1956	CA	ALA	В	307	13.971	17.589		1.00	50.62
ATOM	1957	СВ	ALA	В	307	13.092	16.584		1.00	51.30
ATOM	1958	C	ALA	В	307	15.303	17.719		1.00	46.84
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MOTA	1959	0	ALA	В	307	16.196	16.885 28.274	1.00	45.62	
MOTA	1960		LEU	В	308	15.431	18.769 27.320	1.00	43,46	
ATOM	1961	CA	LEU	В	308	16.643	18.983 26.542	1.00	43.01	
ATOM	1962	CB	LEU	В	308	16.413	20.100 25.526	1.00	41.32	
ATOM	1963	CG	LEU	В	308	16.315	19.708 24.051	1.00	43.10	
ATOM	1964	CD1	LEU	В	308	15.942	18.239 23.903	1.00	40.51	
ATOM	1965		LEU	В	308	15.287	20.602 23.375	1.00	39.80	
ATOM	1966		LEU	В	308	17.874	19.297 27.385	1.00	42.11	
ATOM	1967		LEU	В	308	19.000	19.102 26.932	1.00	44.34	
ATOM	1968	N	SER	В	309	17.669	19.775 28.608	1.00	40.88	
ATOM	1969	CA	SER	В	309	18.796	20.100 29.475	1.00	42.79	
MOTA	1970	CB	SER	В	309	18.562	21.447 30.163	1.00	41.25	
ATOM	1971	OG	SER	В	309	17.459	21.379 31.046	1.00	46.67	
atom Atom	1972 1973	С О	SER SER	В	309	19.072	19.028 30.529	1.00	42.60	
ATOM	1974	N	LEU	B B	309 310	20.053 18.217	19.119 31.269 18.012 30.596	1.00	44.18	
ATOM	1975	CA	LEU	В	310	18.394	16.936 31.569	1.00	39.44 37.62	
ATOM	1976	CB	LEU	В	310	17.205	15.969 31.499	1.00	38.84	
ATOM	1977		LEU	В	310	16.216	15.873 32.668	1.00	42.43	
ATOM	1978	CD1	LEU	В	310	16.040	17.219 33.355	1.00	42.55	
ATOM	1979	CD2	LEU	В	310	14.881	15.380 32.138	1.00	39.69	
ATOM	1980	C	LEU	B	310	19.691	16,174 31.285	1.00	34.11	
ATOM	1981	0	LEU	В	310	20.111	16.070 30.139	1.00	34.41	
MOTA	1982	N	THR	. B	311	20.339	15.662 32.326	1.00	34.04	
ATOM	1983	CA	THR	В	311	21,564	14.888 32.127	1.00	32.34	
ATOM	1984	CB	THR	В	311	22.434	14.824 33.399	1.00	31.75	
ATOM	1985	OG1	THR	В	311	21.724	14.116 34.420	1.00	36.20	
MOTA MOTA	1986	CG2	THR	В	311	22.782	16.212 33.893	1.00	31.05	
ATOM	1987 1988	С 0	THR THR	B B	311 311	21.145 19.967	13.460 31.790 13.117 31.899	1.00	32.37	
ATOM	1989	Ŋ	ALA	В	312	22.106	12.628 31.396	1.00	28.16 33.23	
ATOM	1990	CA	ALA	В	312	21.811	11.237 31.053	1.00	35.63	
ATOM	1991	CB	ALA	В	312	23.077	10,527 30.577		34.00	
ATOM	1992	C	ALA	В	312	21,210	10.489 32.240	1.00	34.29	
ATOM	1993	0	ALA	В	312		9.766 32.089		33.10	
ATOM	1994	N	ASP	В	313	21.800	10.665 33.419		33.90	
ATOM	1995	CA	ASP	В	313	21.304	9.994 34.615	1.00	34.19	
MOTA	1996	CB	ASP	В	313	22.258	10.219 35.788	1.00	42.09	
ATOM	1997	CG	ASP	В	313	23.494	9.358 35.700	1.00	44.87	
MOTA	1998	OD1	ASP	В	313	24.586	9.858 36.040	1.00	51.57	
ATOM	1999	OD2	ASP	В	313	23.377		1.00	46.79	
MOTA MOTA	2000 2001	C	ASP	В	313	19.925	10.520 34.971	1.00	31.99	
ATOM	2001	N	ASP GLN	B B	313 314	19.056	9.768 35.426	1.00	32.03	
ATOM	2002	CA	GLN	В	314	19.733 18.458	11,819 34.763 12.457 35.046	1.00	29.38 29.73	
MOTA	2003	CB	GLN	В	314	18.562	13.966 34.832	1.00	32.88	
ATOM	2005	CG	GLN	В	314	18.970	14.732 36.085	1.00	36.47	
ATOM	2006	CD	GLN	В	314	19.213	16.208 35.815	1.00	36.76	
ATOM		OE1	GLN	В	314	19.300	16.634 34.664	1,00	38.79	
ATOM	2008	NE2	GLN	В	314	19.327	16.995 36.880	1.00	39.72	
MOTA	2009	С	GLN	В	314	17.409	11.873 34.116	1.00	29.11	
ATOM		0	GLN	В	314	16.274	11.620 34.522	1.00	28.82	
MOTA		N	MET	В	315	17.801	11.657 32.864	1.00	27.27	
MOTA		CA	MET	В	315	16,900	11.079 31.872	1.00	30.41	
ATOM	2013	CB	MET	В	315	17.595	11.029 30.509	1.00	30.10	
ATOM		CG	MET	В	315	. 16.787	10.345 29.421	1.00	38.02	
ATOM	2015	SD	MET	В	315	15.252	11.220 29.065	1.00	41.12	
ATOM	2016	CE	MET	В	315	15.890	12.835 28.611	1.00	39.32	

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ATOM	2017	C	MET	В	315	16.490	9.665 32.311	1.00	27.99
ATOM	2018	0	MET	В	315	15.302	9.351 32.396	1.00	26.60
Atom	2019	N	VAL	В.	316	17.481	8.823 32.598	1,00	27.26
ATOM	2020	CA	VAL	В	316	17.229	7.447 33.027	1.00	24.54
ATOM	2021	CB	VAL	₿	316	18.554		1.00	26.22
ATOM	2022	CGI	VAL	B	316	18.272	5.404 34.096	1.00	29.81
ATOM	2023	CG2	VAL	В	316	19.302	6.410 32.074	1.00	29.75
ATOM	2024	Ç	VAL		316	16.326		1.00	
				В			7.389 34.258		27.22
atom	2025	O	VAL	В	316	15.397	6.579 34.318	1.60	25.55
atom	2026	N	SER	В	317	16.601	8,243 35.242	1.66	24.40
ATOM	2027	CA	SER	B	317	15.799	8.268 36.460	1.00	27.63
ATOM	2028	CB	SER	B	317	16.358	9.294 37.451	1.00	31.68
MOTA	2029	og	SER	B	317	17.492	8.771 38.112	1.00	39.97
MOTA	2030	C	SER	В	317	14.346	8.600 36.154	1.00	26.73
ATOM	2031	0	SER	B	317	13.434	7.932 36,648	1.00	25.65
MOTA	2032	N	ALA	B	318	14.135	9.634 35.342	1.00	24.19
ATOM	2033	CA	ALA	В	318	12.786	10.049 34.969	1.00	24.17
ATOM	2034	CB	ALA	В	318	12.850	11.250 34.022	1.00	21.44
ATOM	2035	Ċ	ALA	В	318	12.038	8.890 34.306	1.00	21.63
ATOM	2036	0	ALA	B	318	10.902	8.598 34.648	1.00	20.25
ATOM	2037	N	LEU	В	319	12.695	8,225 33.364	1.00	23.37
ATOM	2038	CA	LEU	В	319	12.098	7.102 32.652	1.00	25.42
ATOM	2039	CB	LEU	В	319	13.050	6.635 31,548	1.00	22.03
ATOM	2040	CG	LEU	В	319	13.264	7.622 30.394	1.00	20.71
MOTA	2041	CD1	LEU	В	319	14.146	6.995 29.331	1.00	23.60
ATOM	2042	CD2	LEU	В	319	11.918	8.020 29.803	1.00	23.82
ATOM	2043	C	LEU	B	319	11.729	5.926 33.564	1.00	27.26
MOTA	2044	ō	LEU	В	319	10.615	5.396 33.488	1.00	28.91
ATOM	2045	Ŋ	LEU	В	320	12.656	5.516 34.426	1.00	26.58
ATOM	2046	CA	LEU	В	320	12.399	4.405 35,334	1.00	26.73
ATOM	2047	CB	LEU	В	320	13.657	4.075 36.145	1.00	26.87
ATOM	2048	CG	LEU	В	320	14.846	3,460 35.398	1.00	26.15
ATOM	2049	CD1	LEU	В	320	16,053	3.375 36.330	1.00	28.04
ATOM	2050	CD2	LEU	В	320	14.484	2.076 34.895		26.96
ATOM	2050	CD2	LEU	В	320	11.249		1.00	29.19
ATOM	2051		LEU	_			4.722 36.290	1.00	
				B	320	10.449	3.849 36.631	1.00	26.66
MOTA	2053	N	ASP	В	321	11.160	5.976 36.719	1.00	29.72
MOTA	2054	ÇA	ASP	В	321	10.112	6.371 37.647	1.00	31.36
ATOM	2055	CB	ASP	В	321	10.494	7.683 38.336	1.00	36.60
ATOM	2056	CG	ASP	В	321	11.407	7.461 39,535	1.00	46.11
ATOM	2057	OD1	ASP	В	321	10.897	7.058 40,605	1.00	46.64
ATOM	2058	OD2	ASP	В	321	12.635	7.676 39.402	1.00	45.98
ATOM	•	C.	ASP	В	321	8.742	6.494 36.989	1.00	28.29
ATOM	2060	0	ASP	В	321	7.715	6.432 37.661	1.00	27.19
ATOM	2061	N	ALA	В	322	8.726	6.650 35.672	1.00	28.34
ATOM		CA	ALA	В	322	7.469	6.779 34.950	1.00	25.55
MOTA	2063	CB	ALA	В	322	7.668	7.668 33.728	1.00	24.11
ATOM	2064	C .	ALA	В.	322	6.911	5.420 34.523	1.00	22.80
ATOM	2065	0	ALA	В	322	5.810	5.338 33.979	1.00	24.54
MOTA	2066	N	GLU	B	323	7.662	4.355 34.781	1.00	20.16
ATOM	2067	CA	GLU	В	323	7.229	3.021 34.386	1.00	21.44
MOTA	2068	CB	GLU	В	323	8.196	1.982 34.938	1.00	23.72
ATOM	2069	CG	GLU	В	323	9.393	1.746 34.024	1.00	23.58
MOTA	2070	CD	GLU	В	323	8.988	1.134 32.685	1.00	25.23
ATOM	2071	OE1	GTA	В	323	8.852	1.881 31.692	1.00	21.74
ATOM	2072	OE2	GLU	В	323	8.809	-0.095 32.624		25.49
ATOM	2072	C	GLU		323 323	5.796		1.00	
ATOM	2073	0	•	В			2.696 34.810	1.00	22.35
MIOM	20/4	0	GLU	В	323	5.409	2.926 35.951	1.00	22.34

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ATOM	2075	N	Pro	В	324	4.986	2.165	33.890	1.00	19.10
atom	2076	CD	PRO	В	324	5.286	1.806	32.483	1,00	19.11
ATOM	2077	CA	PRO	B	324	3.607	1.839	34.242	1.00	22.04
ATOM:	2078	CB	PRO	₽	324	2.919	1.658	32.893	1.00	21.96
ATOM	2079	CG	PRO	B	324	4.015	1.137	32.015	1.00	24,13
ATOM	2080	C	PRO	В	324	3.619		35.060	1.00	23.44
ATOM	2081	0	PRO	В	324	4.590		35.028	1.00	22.20
ATOM	2082	N	PRO	В	325	2.540		35.801	1.00	24.88
ATOM	2083	CD	PRO	В	325	1.299		35.945	1.00	26.67
ATOM	2084	CA	PRO	В	325	2.520		36.603	1.00	25.10
ATOM	2085	CB	PRO	В	325	1.394		37,595	1.00	27.09
MOTA	2086	ce	PRO	В	325	0.448	•	36,854	1.00	26.87
ATOM	2087	C	PRO	B	325	2.270		35.776	1.00	25.77
ATOM	2088	ō	PRO	B	325	1.853	-2.118		1,00	21.69
ATOM	2089	Ņ	ILE	В	326	2.538	-3.344		1.00	24.05
ATOM	2090	CA	ILE	B	326	2.301	-4.620		1.00	22.51
ATOM	2091	CB	ILE	B	326	3.303	-5.688		1,00	25.81
ATOM	2092	CG2	ILE	В	326	3.011	-7.018		1.00	23.78
ATOM	2093	CG1	ILE	В	326	4.729	-5,209		1.00	25.75
ATOM	2094	CD1	ILE	В	326	5.241	-5.585		1.00	27.78
ATOM	2095	C	ILE	В	326	0.893	-5.020		1.00	23.63
ATOM	2096	Ô	ILE	В	326	0.632	-5.231		1.00	24.81
ATOM	2097	N	LEU	В	327	-0.018	-5.104	*	1.00	19.44
ATOM	2098	CA	LEU	B	327	-1.399	-5.437		1.00	17.03
ATOM	2099	CB	LEU	В	327	-2.336	-4.747		1.00	18.39
ATOM	2100	CG	LEU	В	327	-2.201	-3.216		1.00	20.69
ATOM	2101	CD1	LEU	В	327	-3.245	-2.679		1.00	14.87
ATOM	2102	CD2	LEU	В	327	-2.384	-2.570		1.00	14.39
ATOM	2103	C	LEU	В	327	-1.662	-6.928		1.00	19.87
MOTA	2104	Ö	LEU	B	327	-0.854	-7.722		1.00	20.90
ATOM	2105	Ŋ	TYR	В	328	-2.803	-7.300		1.00	20.92
ATOM	2106	CA	TYR	В	328	-3.202	-8.692		1.00	21.79
ATOM	2107	CB	TYR	В	328	-3.658	-9.050		1.00	22.91
ATOM .	2108	CG.	TYR	В	328	-2.515	-9.376		1.00	24.60
ATOM	2109	CD1	TYR	В	328	-2.118	-10.696		1.00	25.93
ATOM	2110	CE1	TYR	В	328	-1.034	-11.000		1.00	28,10
ATOM	2111	CD2	TYR	В	328	-1.802	-8.362		1.00	29.46
ATOM	2112	CE2	TYR	В	328	-0.716	-8.654		1.00	35.30
ATOM	2113	CZ	TYR	B	328	-0.338	-9.973		1.00	32.59
ATOM	2114	OH	TYR	В	328		-10.257	•	1.00	37.24
ATOM	2115	C	TYR	B	328	-4.336	-8.944		1.00	22.25
ATOM	2116	Ö	TYR	В	328	-5.115	-8.039		1.00	19.77
ATOM	2117	N	SER	В	329		-10.180		1.00	25.81
MOTA	2118	CA	SER	В	329		-10.571		1.00	29.39
ATOM	2119	CB	SER	В	329		-11.710		1.00	27.65
ATOM	2120	OG	SER	B	329	-6.091	-12.329		1.00	28.98
ATOM	2121	C	SER	В	329	-6.625	-11.042		1.00	33.17
ATOM	2122	0	SER	B	329	-6.453	-11.157		1.00	32.52
ATOM	2123	Ŋ	GLU	В	330	-7.792	-11.289		1.00	38.75
MOTA	2124	CA	GLU	В	330	-8.930	-11.776		1.00	44.91
ATOM	2125	CB	GLU	В	330		-11.999		1.00	45.63
ATOM	2125	C	GLU	В	330	-8.493	-13.093		1.00	48.62
ATOM	2127	0	GLU	B	330	-7.739	-13.093		1.00	52.37
ATOM	2128	Ŋ	TYR	В	331	-8.952	-13.851		1.00	51.75
ATOM	2129	CA	TYR	В	331	-8.575	-14.596		1.00	55.25
ATOM	2129	CB	TYR	В	331	-8.538	-14.365		1.00	53.25
MO'I'A	2130	CG	TYR	В	331	-9.769	-13.668		1.00	50.70
ATOM	2131	CD1	TYR	В	331		-13.666		1.00	47.09
*** O!''	2776		TIK	ø	221	-10.650	~ T4'#00	J9.030	4.00	£1.U3

ATOM	2133	CE1	TYR	В	331	-12.035	-13.762 40,292	1,00	46.43
atom	2134		TYR	B	331	-9,842	-12.273 39.478		47.52
atom	2135		TYR	B	331	-10.993	·		43.98
atom	2136		TYR	₿	331	-12.086	-12.376 40.314	1.00	44,33
ATOM	2137		TYR	В	331	-13.239	-11.747 40.715	1.00	45.31
ATOM	2138		TYR	В	331	-9.528	-15.743 37,075	1.00	60.11
ATOM	2139		TYR	B	331	-10.748	-15.569 37.066	1.00	63.13
ATOM	2140	N	ASP	В	332	-8.952	-16.913 36.809	1.00	61.60
ATOM	2141	CA	ASP	B	332	-9.704	-18.124 36.490	1.00	63.58
ATOM	2142	СВ	ASP	B	332	-10.637	-17.895 35,298	1.00	65.11
ATOM	2143	CG	ASP	B	332	-11.723	-18.953 35.200	1.00	65.32
MOTA	2144	OD1	asp	B	332	-11.420	-20.136 35.463	1.00	63,69
ATOM	2145	OD2	ASP	B	332	-12.876	-18.602 34.866	1.00	63.61
ATOM	2146	C	ASP	B	332	-8.707	-19,227 36,153	1.00	62.86
ATOM	2147	0	ASP	В	332	-7.853	-19.056 35.287	1.00	62,26
MOTA	2148	N	PRO	B	333	-8.811	-20.379 36.833	1.00	63.96
ATOM	2149	CD	PRO	В	333.	~9.808	-20.690 37,875	1.00	64.24
ATOM	2150	CA	PRO	₿	333	-7.901	-21,503 36,596	1.00	64.24
MOTA	2151	CB	PRO	В	333	-8.015	-22.325 37.874	1.00	64.70
MOTA	2152	CG	PRO	В	333	-9.410	-22.071 38.347	1.00	65.00
ATOM	2153	C	PRO	В	333	-8.180	-22.340 35.351	1.00	63.90
ATOM	2154	0	PRO	В	333	-7.384	-23.214 35.007	1.00	63.70
ATOM	2155	N	THR	В	334	-9.303	-22.084 34.683	1.00	63.83
ATOM	2156	CA	THR	В	334	-9.649	-22.832 33.475	1.00	63.77
ATOM	2157	CB	THR	В	334	-11.065	-22,477 32,975	1.00	64.63
ATOM	2158	OG1	THR	В	334	-11.132	-21.078 32.675	1.00	65.95
ATOM	2159	CG2	THR	В	334		-22.817 34.036	1.00	65.09
ATOM	2160	С	THR	В	334	-8.634	-22.499 32.388	1.00	62.62
ATOM	2161	0	THR	B	334	-8.931	-21.774 31,437	1.00	60.15
ATOM	2162	N	ARG	В	335		-23.043 32.553	1.00	63.14
ATOM	2163	CA	ARG	В	335		-22.820 31.633	1.00	60.70
ATOM	2164	CB	ARG	В	335		-23.667 32.050	1.00	58.73
ATOM	2165	С	ARG	В	335		-23.086 30.174	1.00	59.71
ATOM	2166	0	ARG	В	335		-22.298 29.298	1.00	62.33
ATOM	2167	N	PRO	В	336		-24.194 29.884	1.00	55.25
MOTA	2168	CD	PRO	B	336		-25,227 30.769	1.00	53,53
MOTA	. 2169	CA	PRO	В	336		-24.437 28.471	1.00	50.10
ATOM	2170	CB	PRO	В	336	-8.399	-25.799 28.476	1.00	49.70
ATOM	2171	CG	PRO	В	336		-26.372 29.844	1.00	50.71
ATOM	2172	c	PRO	В	336		-23.324 27.954	1.00	44.54
ATOM	2173	0	PRO	B	336		-23.342 28.179	1.00	44.14
ATOM	2174	N	PHE	В	337		-22.350 27.274	1,00	39.18
ATOM	2175	CA.	PHE	B	337		-21.223 26.742	1.00	38.25
ATOM	2176	CB	PHE	В	337		-20.003 26.567	1.00	36.98
ATOM	2177	CG	PHE	В	337		-19.517 27.846	1.00	36.81
ATOM	2178	CD1	PHE	В	337		-19.511 28.002	1.00	38.89
ATOM	2179	CD2	PHE	В	337		-19.062 28,893	1.00	35.97
ATOM	2180	CE1	PHE	B	337		-19.059 29.185	1,00	36.85
MOTA	2181	CE2	PHE	В	337		-18.608 30.079	1.00	37.15
ATOM	2182	CZ	PHE	В	337		-18.607 30.224	1.00	38.40
ATOM	2183	С	PHE	В	337		-21.535 25.402	1.00	36.81
ATOM	2184	0	PHE	B	337		-22.399 24.658	1.00	36,26
MOTA	2185	N	SER	В	338		-20.828 25.107	1.00	35.85
ATOM	2186	CA	SER	В	338	-11.198	-20.981 23.836	1.00	34.76
ATOM	2187	CB	SER	В	338	-12.713	-20.948 24.035	1.00	34.85
ATOM	2188	OG	SER	В	338		-19.621 24.235	1.00	33.53
MOTA	2189	C	SER	В	338		-19.761 23.037	1.00	34,99
ATOM	2190	0	SER	B	338	-10.143	-18.855 23.591	1.00	34.32

ATOM	2191		GLU	В	339		-19.722 21.750		33.01	~ ·
MOTA	2192		GLU	B	339	-10.682	-18.579 20.950	1.00	33.94	
ATOM	2193	CB	GLU	B	339		-18.737 19.501	1.00	33,79	
ATOM	2194		GĻU	В	339	-10.758	-17.553 18.623	1.00	39.11	
ATOM	2195	ÇD	GLU	В	339	-10.865	-17.852 17.137	1.00	43.17	
ATOM	2196	OE1	GLU	₿	339	-11.990	-17.785 16.600	1.00	45.28	
ATOM	2197	OE2	GLU	В	339	-9.824	-18.152 16.510	1.00	39,19	
ATOM	2198	С	GLU	В	339	-11.265	-17.295 21.531	1.00	34.28	
ATOM	2199	0	GLU	В	339	-10.575	-16.283 21.631	1.00	33.65	
ATOM	2200	N	ALA	В	340	-12.535	-17.339 21.920	1.00	31.12	
ATOM	2201	ÇA	ALA	. B	340	-13.194	-16.164 22.469	1.00	29.10	
MOTA	2202	CB	ALA	B	340	-14.696	-16.412 22.573	1.00	33.84	
ATOM	2203	C ·	ALA	B	340		-15.731 23.826	1.00	28.98	
ATOM	2204	0	ALA	B	340		-14,541 24.060	1.00	30.48	
ATOM	2205	N	SER	В	341		-16.691 24.719	1.00	26.66	
MOTA	2206	CA	SER	В	341		-16.386 26.044	1.00	24.26	
ATOM	2207	CB	SER	В	341		-17.643 26.923	1.00	27.04	
ATOM	2208	OG	SER	B	341		-18.541 26.515	1.00	33.84	
ATOM	2209	С	SER	В	341		-15.793 25,960	1.00	23.97	
ATOM	2210	0	SER	В	341		-14.824 26.651	1.00	21.56	
ATOM	2211	N	MET	В	342		-16.368 25.114	1.00	26.83	
ATOM	2212	CA	MET	В	342		-15.865 24.954	1.00	27.24	
ATOM	2213	CB	MET	В	342		-16.758 24.001	1.00	30.45	
ATOM	2214	CG	MET	В	342		-16.300 23.802	1.00	35.35	
ATOM	2215	SD	MET	В	342		-17.667 23.777	1.00	44.57	
ATOM	2216	CE	MET	В	342		-17.341 22.244	1.00	41.37	
ATOM	2217	С	MET	В	342		-14.448 24.385	1.00	25.31	
ATOM	2218	0	MET	В	342	-7.653	-13.541 24.874	1.00	26.67	
ATOM	2219	N	MET	В	343		-14.278 23.345	1.00	25.75	
MOTA	2220	CA	MET	В	343	-9.262		1.00	25.47	
ATOM	2221	CB	MET	В	343	-10.210	-13.088 21.528	1.00	23.51	
ATOM	2222	CG	MET	В	343	-9.540	-13.618 20.273	1.00	28.86	
ATOM	2223	SD	MET	В	343	-8.325		1.00	29.25	
ATOM	2224	CE	MET	В	343		-11.015 19.371	1.00	28.74	
ATOM	2225	С	MET	В	343		-11.966 23.712	1.00	25.37	
ATOM	2226	0	MET	B	343		-10.810 23.728	1.00	24.98	
ATOM	2227	N	GLY	В	344		-12.403 24.536	1.00	23.91	
ATOM	2228	CA	GLY	В	344		-11.526 25.536		22.43	
ATOM	2229	C	GLY	В	344		-11.103 26.592	1.00	22.06	
ATOM	2230	0	GLY	В	344	-10.262	-9.934 26.982	1.00	20.87	
ATOM	2231	N	LEU	B	345	-9.511	-12.048 27.063	1.00	19.36	
ATOM	2232	CA	LEU	В	345		-11.748 28.083	1,00	25.74	
ATOM	2233	CB	LEU	В	345		-13.040 28.600	1.00	26.78	
ATOM	2234	CG	LEU	В	345		-14.010 29.362	1.00	30.04	
ATOM	2235	CD1	LEU	В	345		-15.357 29.488	1.00	28.39	
ATOM	2236	CD2	LEU	В	345		-13.443 30.736	1.00	29.93	
ATOM		С	LEU	В	345		-10.822 27,550	1.00	23.24	
ATOM		0	LEU	В	345	-7.037	-9.865 28.212	1.00	23,43	
ATOM		N	LEU	В	346		-11.108 26.350	1.00	21.92	
ATOM		CA	LEU	В	346		-10.303 25.763	1.00	22.71	
ATOM		СВ	LEU	В	346		-10.962 24.486	1.00	23.17	
ATOM	2242	CG	LEU	В	346		-12.331 24.668	1.00	20.66	
ATOM		CD1	LEU	В	346		-12.916 23.309	1.00	18.75	
ATOM	2244	CD2	LEU	В	346		-12.188 25.553	1.00	20.84	
ATOM		C	LEU	В	346		-8.873 25.458	1.00	22.99	
ATOM		Ö	LEU	В	346	-5.540	-7.935 25.695	1.00	22.07	
ATOM		N	THR	В	347	-7.516	-8.699 24.937	1.00	20.53	
ATOM		CA	THR	В	347	-7.987	-7.357 24.608	1.00	20.33	
			- 144	-	J 7 /	, ,	7.337 24.000	1.00	21.07	

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ATOM	2249		THR	В	347	-9.152	-7.388 23.601		21.65
ATOM	2250		THR	B	347	-10.218	-8.190 24.123		19.65
ATOM	2251	CG2	THR	В	347	-8.676	-7.955 22.262		22.01
ATOM	2252	C	THR	B	347	-8.426	-6.590 25.853	1.00	23.60
ATOM	2253	0	THR	В	347	-8.358	-5.357 25.883	1.00	20.31
MOTA	2254	N	asn	В	348	-8.884	-7.314 26.874	1.00	22.27
MOTA	2255	CA	asn	B	348	-9.293	-6.667 28.114	1.00	23.99
MOTA	2256	CB	ASN	В	348	-10.008	-7.642 29.056	1.00	22.32
MOTA	2257	CG	asn	В	348	-10.342	-7.022 30.398	1.00	28.26
ATOM	2258	OD1	asn	B	348	-9.478	-6.746 31.216	1.00	27.14
MOTA	2259	ND2	ASN	B	348	-11.647	-6.764 30.625	1.00	27.02
MOTA	2260	C	asn	B	348	-8.035	-6.120 28.798	1.00	19.48
MOTA	2261	0	asn	В	348	-8.014	-4.991 29.271	1.00	18.26
ATOM	2262	N	LEU	B	349	-6.984	-6.931 28.832	1.00	19.07
ATOM .	2263	CA	LEU	В	349	-5.724	-6.516 29.446	1.00	20.37
ATOM	2264	CB	LEU	В	349	-4.716	-7.674 29.434	1.00	18.21
ATOM	2265	CG	LEU	В	349	-3.297	-7.316 29.889	1.00	18.24
ATOM	2266	CD1	LEU	В	349	-3,323	-6:904 31.356	1.00	12.44
ATOM	2267	CD2	LEU	B	349	-2.370	-8.504 29.672	1.00	21,28
MOTA	2268	C	LEU	В	349	-5.131	-5,307 28.718	1.00	19.92
MOTA	2269	0	LEU	B	349	-4.738	-4,322 29.349	1.00	16.56
MOTA	2270	N	ALA	В	350	-5.067	÷5.391 27.391	1.00	16.67
ATOM	2271	CA	ALA	В	350	-4.529	-4.308 26.578	1.00	17,11
ATOM	2272	CB	ALA	B	350	-4.587	-4.690 25.095	1.00	14.15
ATOM	2273	С	ALA	В	350	~5.272	-2.988 26.805	1.00	17.92
ATOM	2274	0	ALA	В	350	-4.650	-1.926 26.904	1.00	18.71
ATOM	2275	N	ASP	B	351	-6.600	-3.053 26.857	1.00	17.51
MOTA	2276	CA	ASP	В	351	-7.409	-1.856 27.074	1.00	16.57
MOTA	2277	CB	ASP	В	351	-8.902	-2.202 27.041	1.00	18.97
MOTA	2278	CG	ASP	В	351	-9.785	-0.974 26.858	1.00	21.80
ATOM ATOM	2279	OD1	ASP	В	351	-9.660	-0.292 25.824	1.00	24.62
ATOM	2280 2281	OD2 C	ASP ASP	B B	351	-10.604	-0.682 27,754 -1.228 28.415	1.00	22.78
MOTA	2282	0	ASP	В	351 351	-7.064 -6.963	-0.009 28.534	1.00	16.81
MOTA	2282	N	ASF	В	351 352	-6.894	-2.056 29.438	1.00	15.75 13.97
ATOM	2284	CA	ARG	B	352	-6.552	-1.509 30.742	1.00	16.09
ATOM	2285	CB	ARG	В	352		-2.571 31.833	1.00	15.78
ATOM	2286	CG	ARG	В	352	-8.189	-2.819 32.189	1.00	17.93
ATOM	2287		ARG	В	352	-8.323	-3.882 33.279	1.00	19.84
ATOM	2288	NE	ARG	В	352	-8.010	-5.222 32.785	1.00	21.36
ATOM	2289	CZ	ARG	В	352	-7,187	-6.075 33.387	1.00	21.18
ATOM	2290	NH1	ARG	B	352	-6.579	-5.741 34.516	1.00	20.51
ATOM	2291	NH2	ARG	В	352	-6.980	-7.275 32.864	1.00	28.51
ATOM	2292	C	ARG	В	352	-5.123	-0.975 30.728	1.00	15.81
ATOM	2293	0	ARG	В	352	-4.835	0.057 31.339	1.00	15.61
ATOM	2294	N	GLU	В	353	-4.231	-1.665 30.019	1,00	15.45
MOTA	2295	CA	GLU	В	353	-2.838	-1.228 29.935	1.00	16,59
ATOM	2296	CB	GLU	В	353	-1.990	-2.243 29.168	1.00	14.64
MOTA	2297	CG	GLU	В	353	-1.554	-3.456 29.973	1.00	18.23
MOTA	2298	CD	GLU	В	353	-0.620	-4.355 29.176	1.00	22.72
MOTA	2299	OE1	GLU	В	353	-1.099	-5.078 28.275	1.00	21.94
ATOM	2300	OE2	GLU	B	353	0.599	-4.324 29.442	1.00	24.41
ATOM	2301	С	GLU	В	353	-2.729	0.119 29.219	1.00	15.85
ATOM	2302	0	GLU	В	353	-1.872	0.939 29.540	1.00	13.76
ATOM	2303	N	LEU	В	354	-3.594	0.335 28.235	1.00	12.93
MOTA	2304	CA	LEU	В	354	-3.556	1.575 27.472	1.00	15.33
ATOM	2305	CB	LEU	В	354	-4.616	1.534 26.360	1.00	16.44
ATOM	2306	CG	LEU	В	354	-4.174	0.750 25.112	1.00	17.03

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atom atom	2307 2308	CD1 CD2	LEU	B B	354 354	-5.373 -3.069	0.509 24.189		16.70
ATOM	2309	CDZ	LEU	B	354 354	-3.069	1.531 24.384 2.805 28.361	1.00	14.52 12.78
ATOM	2310	Ö	LEU	В	354	-3.123	3.850 28.141	1.00	14.28
ATOM	2311	N	VAL	В	355	-4.600	2.682 29.369	1.00	12.60
ATOM	2312	CA	VAL	В	355	-4.844	3.791 30.279	1.00	16.78
ATOM	2313	CB	VAL	В	355	-5.925	3.429 31.327	1.00	16.84
ATOM	2314	CG1	VAL	В	355	-6.070	4.561 32.344	1.00	19.88
ATOM ATOM	2315 2316	CG2 C	VAL VAL	B B	355 355	-7.254	3.187 30.639	1.00	19.33
ATOM	2316	0	VAL	B	355 3 5 5	-3.533 -3.158	4.161 30.986 5.328 31.049	1.00	19.17 17.30
ATOM	2318	N	HIS	В	356	-2.826	3.160 31.499	1.00	19.68
MOTA	2319	CA	HIS	В	356	-1.559	3.418 32.177	1.00	20.64
MOTA	2320	CB	HIS	В	356	-1.110	2.174 32.945	1.00	21.03
ATOM	2321	CG	HIS	В	356	-2.018	1.818 34,085	1.00	22.88
ATOM	2322	CD2	HIS	В	356	-3.128	1.045 34.135	1.00	21.70
ATOM	2323	ND1	HIS	В	356	-1.838	2.312 35.358	1.00	19.24
ATOM ATOM	2324	CE1 NE2	HIS	В	356	-2.802	1.860 36.145	1.00	18.84
ATOM	2325 2326	C	HIS HIS	B B	356 356	-3.598 -0.479	1.088 35.426 3.861 31.184	1.00	17.92 19.67
ATOM	2327	0	HIS	В	356	0.424	4.614 31.547	1.00	19.61
ATOM	2328	N	MET	В	357	-0.566	3.413 29.931	1.00	14.92
ATOM	2329	CA	MET	В	357	0.428	3.830 28.939	1.00	15.13
ATOM	2330	CB	MET	В	357	0.239	3.099 27.604	1.00	13.94
ATOM	2331	CG	MEŢ	В	357	1.149	3.631 26.476	1.00	14.71
ATOM	2332	SD	MET	В	357		3.014 24.826	1.00	17.75
ATOM	2333	CE	MET	В	357	0.746	1.222 25.122	1.00	15.21
ATOM .	2334 2335	0	MET MET	B B	357 357	0.316 1.319	5.334 28.699 6.031 28.560	1.00	14.94 17.02
AŢOM	2336	N	ILE	B	358	-0.909	5.839 28.659	1.00	18.01
ATOM	2337	CA	ILE	В	358	-1.122	7.263 28.423	1.00	19.77
ATOM	2338	CB	ILE	В	358	-2.634	7.577 28.287	1.00	23.11
ATOM	2339	CG2	ILE	В	358	-2.879	9.080 28.450	1.00	25.00
ATOM	2340	CG1	ILE	В	358	-3.137	7.105 26.913	1.00	24.19
ATOM ATOM	2341 2342	CD1.	ILE	В	358	-4.600	6.653 26.890	1.00	20.17
ATOM	2342	0	ILE ILE	B B	358 358	-0.501 0.080	8.100 29.550 9.153 29.299	1.00 1.00	22.93 23.33
ATOM	2344	N	ASN	В	359	-0.619	7.631 30.790	1.00	22.34
ATOM	2345	CA	ASN	В	359	-0.029	8,341 31,924	1.00	23.24
ATOM	2346	CB	ASN	В	359	-0.480	7.726 33.224	1.00	25.10
ATOM	2347	CG	ASN	В	359	-1.831	8.171 33.649	1.00	32,65
ATOM	2348	OD1	ASN	В	359	-2.421	9.069 33.042	1.00	32.98
ATOM	2349	ND2	ASN	B	359	-2.364	7.549 34.691	1.00	33.87
ATOM ATOM	2350 2351	0	ASN ASN	В	359	1.473	8.306 31.837	1.00	24.77
ATOM	2352	И	TRP	B B	359 360	2.152 1.995	9,285 32,149 7,149 31,438	1.00	24.19 20.82
ATOM -	2353	CA	TRP	В	360	3.439	6.965 31.310	1.00	19.29
ATOM	2354	CB	TRP	В.	360	3.754	5.524 30.878		18.59
ATOM	2355	CG	TRP	В	360	5.085	5.363 30.176	1.00	18.21
ATOM	2356	CD2	TRP	В	360	5.310	5.308 28.756	1.00	14.38
ATOM	2357	CE2	TRP	В	360	6,698	5.129 28.561	1.00	13.42
ATOM	2358	CE3	TRP	В	360	4.475	5.392 27.633	1.00	15.52
ATOM	2359	CD1	TRP	В	360	6.306	5.221 30.762	1.00	13.34
ATOM ATOM	2360 2361	NE1	TRP TRP	B B	360 360	7.283 7.272	5.078 29.800 5.032 27.288	1.00	16.05
ATOM	2362	CZ3	TRP	В	360	5.045	5.296 26.363	1.00	16.84 15.11
ATOM	2363	CH2	TRP	В	360	6.431	5.115 26.202	1.00	16.12
MOTA	2364	C	TRP	В	360	3.979	7.939 30.273	1.00	20.13

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ATOM .	2365	0	TRP	В	360	4.991	8,606 30,49	7 1.00	17.26
ATOM	2366		ALA	В	361	3.295	8.012 29.13		
ATOM	2367		ALA	В	361	3.708	8.900 28.05		
ATOM	2368		ALA	В	361	2.682	8.855 26.92		19.53
ATOM	2369		ALA	B	361	3.883	10,336 28.55		22.39
ATOM	2370		ALA	В	361	4.858	11.005 28.21		19.57
ATOM	2371		LYS	В	362	2.932	10.794 29.36		21.96
ATOM	2372	CA	LYS	B	362	2.966	12.139 29.92		26.45
ATOM	2373	CB	LYS	B	362	1,741	12.363 30.81		29.79
ATOM	2374	CG	LYS	B	362	0.426	12.417 30.06		33.57
ATOM	2375	CD	LYS	В	362	-0.563	13.304 30,80		36.83
ATOM	2376	CE	LYS	В	362	-1.620	12.490 31.51		36.89
ATOM	2377	NZ	LYS	B	362	-2.873	13.276 31.66		39.07
ATOM	2378	,C	LYS	B	362	4.223	12.379 30.75		27.77
ATOM	2379	Ø	LYS	B	362	4.661	13.517 30.92		26.93
ATOM	2380	N	ARG	В	363	4.805	11.302 31,270		26.61
MOTA	2381	CA	arg	В	363	5.996	11.414 32.10		27.74
ATOM	2382	CB	ARG	В	363	5.887	10.457 33.298		28.93
MOTA	2383	CG	ARG	В	363	4,650	10.704 34.158		36.07
ATOM	2384	ÇD	ARG	B	363	4.569	9.745 35.344		42.83
MOTA	2385	NE	ARG	В	363	4.477	8.344 34.928		49.79
ATOM	2386	ĆZ	ARG	В	363	3.395	7.582 35.080		51.48
ATOM	2387	NH1	ARG	В	363	2.300	8.081 35,648		52.17
ATOM	2388	NH2	ARG	В	363	3.405	6.316 34.668	1.00	40.24
ATOM	2389	C	ARG	В	363	7.308	11,190 31.367	7 1.00	25.80
ATOM	2390	0	ARG	В	363	8.374	11.183 31.979	1.00	29,36
ATOM	2391	N	VAL	В	364	7.231	11.009 30.053	1.00	24.28
ATOM	2392	CA	VAL	В	364	8.431	10.823 29.248		21.87
MOTA	2393	CB	VAL	B	364	8.116	10.048 27.947		21.84
ATOM	2394	CG1	VAL	В	364	9.267	10.184 26.968		15,85
ATOM	2395	CG2	VAL	B	364	7.860	8.560 28.268		16.24
ATOM	2396	C	VAL	В	364	8.925	12.241 28.923		28.14
ATOM	2397	0	VAL	В	364	8.219	13.023 28.289		24.24
ATOM	2398	N	PRO	В	365	10.141	12.591 29.375		28.57
ATOM	2399	CD	PRO	В	365	11.061	11.726 30.137		30.58
ATOM	2400	CA	PRO	В	365	10.719	13.919 29.138		32.16
MOTA MOTA	2401 2402	CB CG	PRO	В	365	12.189	13.739 29.507		32.70
ATOM	2402	C	PRO PRO	B B	365	12.170	12.671 30.545		33.35
ATOM	2404	0	PRO	В	365 365	10.546	14.464 27,726		32.22
ATOM	2405	N	GLY	В	366	11.056 9.821	13.897 26.766 15.570 27.609		37.04
ATOM	2406	CA	GLY	В	366	9.612	16.182 26.310		34.09 32,54
ATOM	2407	C	GLY	В	366	8.241	15.969 25.706		33.46
ATOM	2408	Õ	GLY	В	366	7.791	16.779 24.886		33.73
ATOM	2409	N	PHE	В	367	7.564	14.895 26.096		31.08
ATOM	2410	CA	PHE	B	367	6.250	14.593 25.542		28.60
ATOM	2411	CB	PHE	В	367	5.745	13.244 26.058		25.96
ATOM	2412	CG	PHE	В	367	4.629	12.671 25.239		22.75
ATOM	2413	CD1	PHE	B	367	3.313	12.771 25.669		22.62
ATOM	2414	CD2	PHE	В	367	4.897	12.025 24.033		22.29
ATOM	2415	CE1	PHE	В	367	2.272	12.233 24.914		25.63
ATOM	2416	CE2	PHE	В	367	3.867	11,486 23,272		20.82
ATOM	2417	CZ	PHE	В	367	2.553	11.588 23.711		25.50
ATOM	2418	C	PHE	В	367	5.178	15.646 25.781		26.79
ATOM	2419	ō	PHE	В	367	4.458	16.001 24.854		23.37
ATOM	2420	N	VAL	В	368	5.049	16.143 27.009		31.26
ATOM	2421	CA	VAL	В	368	4.020	17.151 27.277		35.71
ATOM	2422	CB	VAL	В	368	3.817	17.412 28.795		35,98

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ATOM	2423	CG1	VAL	В	368	2.944	16.320 29,393	1.00	37.64 -	
ATOM	2424	CG2	VAL	В	368	5.157	17.495 29.508	1.00	35.81	
ATOM	2425	C	VAL	В	368	4.328	18.482 26.598	1.00	35.87	
ATOM	2426	0	VAL	B	368	3.450	19.330 26.457	1.00	37.71	
ATOM	2427	N	asp	B	369	5.572	18.665 26,175	1.00	35.49	
MOTA	2428	CA	asp	B	369	5.950	19.904 25.503	1.00	36.54	
MOTA	2429	CB	asp	B	369	7.466	19.963 25.309	1.00	39.79	
MOTA	2430	CG	ASP	B	369	8.213	20.169 26,615	1.00	44,33	
MOTA	2431	OD1	ASP	B	369	9.409	19.807 26,684	1.00	48.45	
ATOM	2432	OD2.	asp	B	369	7.604	20.693 27.572	1.00	43.27	
ATOM	2433	C	asp	В	369	5.248	19.997 24.149	1.00	34.49	
ATOM	2434	0	ASP	В	369	5.131	21.074 23.571	1.00	34.51	
MOTA	2435	N	LEU	В	370	4.776	18.859 23.653	1.00	30.97	
ATOM	2436	CA	LEU	B	370	4.086	18.809 22.370	1.00	29.80	
ATOM	2437	CB	LEU	B	370	4.145	17.389 21.799	1.00	27.27	
MOTA	2438	CG	LEU	В	370	5.522	16.733 21.688	1.00	28.07	
MOTA	2439	CD1	LEU	В	370	5.353	15.242 21.400	1.00	30.38	
ATOM	2440	CD2	LEU	В	370	6.316	17.396 20.574	1.00	22.82	
ATOM	2441	C	LEU	В	370	2.628	19.218 22.521	1.00	28.04	
ATOM	2442	0	LEU	В	370	2.066	19.151 23.611	1.00	29.71	
ATOM	2443	N	THR	В	371	2.011	19.645 21.425	1.00	28.70	
ATOM	2444	CA	THR	B	371	0.602	20.014 21.474	1.00	30,31	
MOTA	2445	CB	THR	В	371	0.150	20.690 20.163	1.00	31.96	
ATOM	2446	OG1	THR	В	371	0.284	19.763 19.080	1.00	29.49	
ATOM	2447	CG2	THR	В	371	0.991	21.930 19.878	1.00	29,98	
ATOM ATOM	2448	C	THR	В	371	-0.208	18.726 21.666	1.00	30.59	
ATOM	2449 2450	N O	THR	В	371	0.300	17.624 21.431	1.00	27.10	
ATOM	2451	CA.	LEU LEU	B B	372 372	-1.461	18.863 22.087	1.00	27.65	
ATOM	2452	CB	LEU	B	372	-2.323 -3.722	17.702 22.303	1.00	30.86	
ATOM	2453	ÇG	LEU	В	372	-4.715	18.147 22.737 17.006 22.960	1.00	30.11	
ATOM	2454	CD1	LEU	В	372	-4.231	16.147 24.126	1.00	32.80 34.10	
MOTA	2455	CDS	LEU	В	372	-6.105	17.562 23.246	1.00	31.16	
ATOM	2456	Ç	LEU	B	372	-2.437	16.863 21.034	1.00	31.77	
ATOM	2457	Ó	LEU	В	372	-2.417	15.629 21.078	1.00	27.06	
ATOM	2458	N	HIS	В	373	-2.564	17.548 19.905	1.00	31.30	
ATOM	2459	CA	HIS	В	373	-2.685	16.888 18.614	1.00	31,35	
ATOM	2460	CB	HIS	В.		-2.844	17.935 17.503	1,00	34.30	
MOTA	2461	ÇG	HIS	В	373	-2.503	17.430 16.132	1.00	41.27	
ATOM	2462	CD2	HIS	В	373	-3.293	17.105 15.079	1.00	42.50	
ATOM	2463	ND1	HIS	В	373	-1.205	17.220 15.715	1.00	43.69	
ATOM	2464	CEl	HIS	B	373	-1.210	16.787 14.465	1.00	48.87	
MOTA	2465	NE 2	HIS	В	373	-2.465	16.708 14.056	1.00	43.72	
ATOM	2466	C	HIS	В	373	-1.468	16.012 18.337	1.00	28.29	
ATOM	2467	0	HIS	В	373	-1.610	14.878 17.897	1.00	30.21	
ATOM	2468	N	ASP	В	374	-0.275	16.541 18.589	1.00	28.85	
ATOM	2469	CA	ASP	В	374	0.950	15.783 18.350	1,00	28.28	
ATOM	2470	CB	ASP	B	374	2.178	16.678 18.535	1.00	31,33	
ATOM	2471	CG	ASP	В	374	2,433	17.577 17.333	1.00	39.07	•
ATOM	2472	OD1	ASP	В	374	3.195	18.557 17.478	1.00	40.60	
ATOM	2473	OD2	ASP	В	374	1.874	17.305 16.246	1.00	38.64	
ATOM	2474	C	ASP	В	374	1.029	14.592 19.303	1.00	29.05	
ATOM		0	ASP	В	374	1.432	13.494 18.908	1.00	24.26	
ATOM		N	GLN	В	375	0.642	14.814 20.556	1.00	24.52	
MOTA	2477	CA	GLN	В	375	0.667	13.749 21.547	1.00	27.37	
MOTA	2478	CB	GLN	В	375	0.213	14.270 22,901	1.00	26.66	
ATOM	2479	CG	GLN	В	375	1,164	15.236 23.563	1.00	29.74	
MOTA	2480	CD	GLN	В	375	0.623	15.691 24,890	1.00	33.13	

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mota Mota	2481 2482	oei Ne2	gln gln	B	375 375	-0.044 0.895		25.602 25.236	1.00	32.82
ATOM	2483	C	GLN	B	375	-0.259		25.236	1.00	33.98 24.52
ATOM	2484	Ö	GLN	B	375	0.233		21.221	1.00	23.56
ATOM	2485	N	VAL	В	376	-1.426		20.599	1.00	21.87
ATOM	2486	CA	VAL	В	376	-2.409	12.055		1.00	23.44
ATOM	2487	ÇB	VAL	B	376	-3.718	12.760		1.00	22.09
MOTA	2488	CG1,	VAL	В	376	-4.572	11.823	18.877	1,00	24.14
MOTA	2489	CG2	VAL	B	376	-4.486	13.192	20.954	1.00	16.96
MOTA	2490	C	VAL	B	376	-1.852	11,257	18.965	1.00	24.15
MOTA	2491	0	LAV	B	376	-1.949	10.032		1.00	22.26
ATOM	2492	N	HIS	В	377	-1.251	11,953		1.00	25.85
ATOM	2493	CA	HIS	B	377	-0.689	11.284	-	1.00	25.68
atom	2494	CB	HIS	B	377	-0.078	12.306		1,00	25.27
ATOM ATOM	2495 2496	CG CD2	HIS HIS	B	377 377	0.535 1.828	11.690 11.559	• •	1.00	30.63
ATOM	2497	ND1	HIS	В	377	-0.217	11.086		1.00	31.03 35.05
ATOM	2498	CE1	HIS	В	377	0.588	10.607		1.00	33.12
ATOM	2499	NE2	HIS	В	377	1.833	10.882		1.00	31.06
ATOM	2500	C	HIS	В	377	0.365	10.237		1.00	24.37
ATOM	2501	0	HIS	В	377	0.321		16.719	1.00	21.47
ATOM	2502	N	LEU	B	378	1.307	10.609	18.072	1.00	19.24
MOTA	2503	CA	TEU	В	378	2.365		18.474	1.00	20.09
MOTA	2504	CB	LEU	В	378	3.363	10.402		1.00	18.64
ATOM	2505	CG	LEU	В	378	4.230	11.489		1.00	22.15
ATOM	2506	CD1	LEU	В	378	5.104	12.148		1.00	22.51
ATOM ATOM	2507	CD2 C	LEU	В	378	5.094	10.885		1.00	20.68
ATOM	2508 2509		LEU	B B	378 378	1.832 2.262		19,161 18.859	1.00	18.91 17.52
ATOM	2510	N	LEU	В	379	0.888	_	20.077	1.00	18.25
ATOM	2511	CA	LEU	В	379	0.317		20.795	1.00	18.60
MOTA	2512	CB	LEU	В	379	-0.526		21.968	1.00	16.77
ATOM	2513	CG	LEU	В	379	0,292		23.214	1.00	17.90
ATOM	2514		LEU	В	379	-0.578		24.211	1.00	15.84
atom		CD2	LEU	B	379	0.851		23.842	1.00	22.09
ATOM	2516	C	LEU	В	379	-0.518		19.872	1.00	20.17
ATOM	2517	0	LEU	В	379	-0.476		19.968	1.00	18.11
atom atom	2518 2519	'n Ca	GLU-	В	380	-1.273		18.971	1.00	19.40
MOTA	2520	CB	GLU	B B	380 380	-2.086 -2.994		18.049 17.222	1.00	20.19 22.43
ATOM	2521	CG	GLU	B ·	380	-4.182		18.007	1.00	25.30
ATOM	2522	CD	GLU	В	380	-5.070		17.188	1.00	29.44
ATOM	2523	OE1	GLU	В	380	-6.206		17.625	1.00	31.70
ATOM	2524	OE2	GLU	В	380	-4.631	9.230	16.110	1.00	31.75
ATOM	2525	C	GLU	В	380	-1.210	5.594	17.117	1.00	18.92
MOTA	2526	0	GLU	В	380	-1.586	4.491	16.722	1.00	19.83
MOTA	2527	Ŋ	ACYS	В	381	-0.039		16.772	0.75	17.41
ATOM	2528	N	BCYS	В	381	-0.035		16.779	0.25	17.76
ATOM	2529	CA	ACYS	В	381	0.860		15.887	0.75	20.19
MOTA MOTA	2530 2531	CA CB	BCYS ACYS	В	381	0.875	5.407		0.25	17.50
ATOM	2531	CB	BCYS	B B	381 381	1.870 1.830	6.342 6.406		0.75 0.25	24.20 16.63
ATOM	2532 2533	SG	ACYS	B	381	1.830	7.518		0.25	33.54
ATOM	2534	SG	BCYS	В	381	3.048	5.656		0.75	10.36
MOTA	2535	C	ACYS	B	381	1.626	4.269		0.75	20.59
ATOM	2536	C	BCYS	В	381	1.689	4.305		0.25	19.19
ATOM		0	ACYS	В	381	1.737	3.161		0.75	19.16
ATOM	2538	0	BCYS	В	381	1.904	3.241	15.982	0.25	19.25

ATOM	2539		ALA	В	382	2.134	4.560 17.78		19.04
ATOM	2540		ALA	В	382	2.955	3.602 18.53		20.27
MOTA	2541		ALA	В	382	4.135	4.364 19.14	3 1.00	18.68
MOTA	2542	C	ALA	В	382	2.356	2.702 19.60		16,82
ATOM	2543	0	ALA	В	382	3.070	1.852 20.14	2 1.00	13.37
ATOM	2544	N	TRP	В	383	1.074	2.855 19.91	6 1.00	15.30
ATOM	2545	CA	TRP	B	383	0.487	2.089 21.01	3 1.00	15.80
ATOM	2546	CB	TRP	В	383	-1.009	2.410 21.16	0 1.00	16.63
MOTA	2547	CG	TRP	В	383	-1.871	1.775 20.12	9 1.00	19.93
ATOM	2548	CD2	TRP	В	383	-2.493	0.483 20.19	8 1.00	20.80
ATOM	2549	CE2	TRP	В	383	-3.226	0.309 19.00	3 1.00	19.27
ATOM	2550	CE3	TRP	В	383	-2.506	-0.542 21.15	5 1.00	21.32
ATOM	2551	CD1	TRP	B	383	-2.236	2.312 18.93	3 1.00	18.59
MOTA	2552	NEI	TRP	B	383	-3,051	1.439 18.25	0 1.00	23.67
Atom	2553	CZ2	TRP	В	383	-3.963	-0.853 18.73	3 1.00	21.55
MOTA	2554	CZ3	TRP	В	383	-3.243	-1.702 20.88	8 1.00	20.29
MOTA	2555	CH2	TRP	В	383	-3.960	-1.844 19.68	6 1.00	19.03
Atom	2556	C	TRP	B	383	0.701	0.579 21.02	0 1.00	17.35
ATOM	2557	0	TRP	В	383	0.982	0.010 22.07	7 1.00	13.92
ATOM	2558	N	LEU	В	384	0.568	-0.087 19.87	9 1.00	14.07
ATOM	2559	CA	LEU	В	384	0.773	-1.532 19.90	3 1.00	15.98
ATOM	2560	CB	LEU	В	384	0.181	-2.200 18.65	6 1.00	12.19
MOTA	2561	CG	LEU	В	384	0.173	-3.735 18.72	0 1.00	12.97
ATOM	2562	CD1	LEU	В	384	-0.352	-4.240 20.08	9 1.00	10.65
ATOM	2563	CD2	LEU	В	384	-0.707	-4.259 17.58	6 1.00	17.84
ATOM	2564	С	LEU	В	384	2.262	-1.861 20.03	4 1.00	14.64
ATOM	2565	0	· LEU	В	384	2.627	-2.833 20.69	0 1.00	13.78
ATOM	2566	N	GLU	В	385	3.116	-1.046 19.41	4 1,00	14.96
ATOM	2567	CA	GLU	В	385	4.565	-1.260 19.50	9 1.00	13.79
ATOM	2568	CB	GLU	В	385	5,336	-0.179 18.73	9 1.00	15.34
ATOM	2569	CG	GLU	В	385	5.297	-0.312 17,20	7 1.00	15.38
ATOM	2570	CD	GLU	B	385	6.162	0.738 16,52		23.97
MOTA	2571	OE1	GLU	В	385	7.381	0.500 16.35	3 1.00	21.03
ATOM	2572	OE2	GLU	В	385	5.622	1.808 16.149		22.19
ATOM	2573	C	GLU	В	385	4.963	-1.161 20.98		15.79
ATOM	2574	0	GLU	В	385	5.788	-1.942 21.46		15.04
ATOM	2575	N	ILE	В	386	4.389	-0.213 21.696	1,00	13.32
ATOM	2576	CA	ILE	B.	386	4.723	-0.019 23.108	3 1.00	14.06
MOTA	2577	CB	ILE	B	386	4.173	1.326 23,61		15.36
ATOM	2578	CG2	ILE	В	386	4.374	1.451 25.130		15.97
ATOM	2579	CG1	ILE	В	386	4.910	2.476 22,90		17.95
ATOM	2580	CD1	ILE	В	386	4.118	3.768 22.874		21.12
ATOM	2581	C	ILE	В	386	4.227	-1.164 23.995		14.97
ATOM	2582	0	ILE	В	386	4.905	-1.560 24.94		19.60
ATOM	2583	N	LEU	В	387	3.038	~1.675 23.709		15,18
ATOM	2584	CA	LEU	В	387	2.516	-2.791 24.478		15.98
ATOM	2585	CB	LEU	В	387	1.070	-3.097 24.080		17.15
ATOM	2586	CG	LEU	В	387	-0.031	-2.113 24.486		19.65
ATOM	2587	CD1	LEU	В	387	-1.371	-2.628 23.972		17.77
MOTA	2588	CD2	LEU	В	387	-0.075	-1.966 26.002		15.38
ATOM	2589	С	LEU	В	387	3.391	-4.013 24.180		14.69
ATOM	2590	0	LEU	В	387	3.712	-4.792 25.076		14.03
ATOM	2591	N	MET	В	388		-4.178 22.921		16.43
ATOM	2592	CA	MET	В	388	4.602	-5.329 22.547		16.67
ATOM	2593	CB	MET	В	388	4.673	-5.460 21.026		14.83
ATOM	2594	CG	MET	В	388	3.403	-6.066 20.453		13.91
ATOM	2595	SD	MET	В	388	3.364	-6.193 18.675		17.23
ATOM	2596	CE	MET	В	388	1.906	-7.225 18.513	1.00	14.97
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	ATOM	2597	С	MET	В	388	6.004	_ E 239	23.133	1.00	20.19
	MOTA	2598	0	MET							
,	ATOM	2599	N		B	388	6.460	-	23.636	1.00	21.50
	ATOM	2600		ILE	В	389	6.707		23.074	1.00	15.34
					В	389	8.044		23.634	1.00	15.59
	MOTA	2601		ILE	B	389	8.836		23.322	1.00	14.95
	MOTA	2602	CG2	ILE	B	389	8,330		24.158	1.00	12.81
	ATOM	2603	CG1	ILE	В	389	10.325		23,602	1.00	17.24
	ATOM	2604	CD1	ILE	B	389	11.228		23,357	1.00	15.65
	MOTA	2605	C	ILE	В	389	7.950		25.147	1.00	14.30
	ATOM	2606	0	ILE	B	389	8.844		25.739	1.00	18.72
	ATOM	2607	N	GLY	В	390	6.855		25.761	1.00	13.99
	ATOM	2608	CA	GLY	B	390	6.681		27.189	1.00	14.87
	MOTA	2609	C	GLY	B	390	6.444		27.463	1.00	18,54
	ATOM	2610	0	GLY	B	390	6.989		28,403	1.00	16.54
	ATOM	2611	N	LEU	B	391	5.623		26.628	1.00	16.15
	MOTA	2612	CA	LEU	B	391	5.334		26.775	1.00	18.91
	ATOM	2613	CB	LEU	В	391	4.332		25.699	1.00	19.55
	ATOM	2614	CG	LEU	В	391	4.157		25.457	1.00	20.91
	MOTA	2615	CD1	LEU	В	391	3.580			1.00	19.41
	MOTA	2616	CD2 C	LEU	В	391	3.232		24.268	1.00	20.70
	ATOM ATOM	2617 2618	0	LEU	В	391	6.649		26.625	1.00	20.31
	ATOM	2619	Ŋ	LEU VAL	В	391 392	7.002 7.378		27.465	1.00	18.66
	ATOM	2620	CA	VAL	B B	392	8,649		25.557 25.278	1.00	18.71 19.51
	ATOM	2621	CB	VAL	В	392	9.288		24.005	1.00	23.77
	ATOM	2622	CG1	VAL	В	392	10.751		23.920	1.00	24.63
	ATOM	2623	CG2	VAL	В	392	8.520		22.767	1.00	19.94
	ATOM	2624	C	VAL	В	392	9.615		26.450	1.00	22.80
	ATOM	2625	0	VAL	В	392	10.336		26.811	1.00	19.36
	ATOM	2626	N	TRP	В	393	9.617		27.046	1.00	22.10
	ATOM	2627	CA	TRP	B	393	10.492		28.171	1.00	23.20
	ATOM	2628	CB	TRP	В	393	10,388	-5.773	28.578	1,00	19.22
	ATOM	2629	CG	TRP	В	393	11.056	-5.479	29.895	1.00	22.53
	AŢOM	2630	CD2	TRP	B	393	12.453	-5.591	30.193	1.00	20.36
	MOTA	2631	CE2	TRP	В	393	12.624	-5.208	31.545	1.00	25.65
	MOTA	2632	CE3	TRP	В	393	13.578	-5.976	29.449	1.00	22.12
	ATOM	2633		TRP	В	393	10.452	-5,046		1.00	23.02
	ATOM	2634	NE1	TRP	В	393	11.387	-4.881	32.037	1.00	24.91
	ATOM	2635	CZ2	TRP	В	393	13.876	-5.200	32.171	1.00	23.00
	ATOM	2636		TRP	В	393	14.829	-5.968		1.00	23.98
	ATOM	2637		TRP	В	393	14.964	-5.582		1.00	23.20
	ATOM	2638	C .	TRP	В	393	10.208	-8.114		1.00	24.36
	MOTA	2639		TRP	В	393	11,128	-8.717		1.00	23,04
	ATOM	2640	N	ARG	В	394	8.952	-8.189		1.00	21,29
	ATOM	2641		ARG	В	394	8.680	-9.003		1.00	22.43
	ATOM	2642	CB	ARG	В	394	7.365	-8.601		1.00	23.97
	ATOM	2643	CG	ARG	В	394	6.259	-8.149		1.00	26.16
	ATOM	2644		ARG	В	394	5.026	-7.727		1.00	20.86
	ATOM	2645	NE	ARG	В	394	3.817	-7.937		1.00	19.54
	ATOM ATOM	2646 2647	CZ NH1	ARG	В	394	3.327	-7.059		1.00	20.58
	ATOM	2648		ARG	В	394	3.944	-5.902		1.00	17.41
	ATOM	2649	C	ARG ARG	B B	394 394	2.229 8.695	-7.347 -10.502		1.00	16.82
	ATOM	2650	0	ARG	B	394		-10.502		1.00 1.00	21.78 23.44
	ATOM		N	SER	В	395		-10.880		1.00	17.10
	ATOM		CA	SER	В	395		-12.289		1.00	25.08
	ATOM	2653		SER	В	395		-12.473		1.00	19.47
	ATOM	2654		SER	В	395		-12.136		1.00	21.73
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ATOM
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                       SER
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 ATOM
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                       SER
                             В
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 MOTA
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                CA
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                CB
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MOTA
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                      HIS
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ATOM
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ATOM
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ATOM
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MOTA
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                                                                          32.09
MOTA
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               CG
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                                                                          30.81
MOTA
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                      PRO
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                                                                          29.76
MOTA
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               Q
                      PRO
                                         10.552 -20.137 28.035
                            В
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                                                                    1.00
                                                                          29.18
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               N
                      GLY
                            В
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                                         10.601
                                                 -19.035 26.071
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                                                                          27,45
MOTA
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               CA
                      GLY
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                                          9.588
                                                 -19.884 25.466
                                                                    1.00
                                                                          26.93
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                                          8.161 -19.537 25.849
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MOTA
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                      GLY
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                                                 -18,554 26,727
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ATOM
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                            В
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                                                 -18.139 27.165
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                                                 -18.563 28.619
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ATOM
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               CG
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                            В
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                                                 -20.069 28.879
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                                          6.181 -20.353 30.349
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                     LYS
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ATOM
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               0
                      LYS
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                                401
                                          7.465
                                                 -15.872 27.035
                                                                    1.00
                                                                          21.45
MOTA
         2704
               N
                     LEU
                            В
                                402
                                          5.241
                                                 -16.181 26.995
                                                                    1.00
                                                                          23.45
ATOM
         2705
               CA
                      LEU
                            \mathbf{B}
                                402
                                                                   1.00
                                          4.929
                                                 -14.759 26.925
                                                                          21.37
MOTA
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               CB
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                            В
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                                                 -14.449 25.689
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                                                                          18.47
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                                                 -14.673 24.360
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                                                                          16.89
MOTA
         2708
               CD1
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                            В
                                402
                                          3.821
                                                 -14.395 23.211
                                                                    1.00
                                                                          21.23
ATOM
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                     LEU
                                402
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                                          6.011
                                                 -13.760 24.277
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                                                                          23.15
ATOM
         2710
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                     LEU
                            В
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                                                                    1.00
                                                                          19.66
MOTA
         2711
               0
                     LEU
                            В
                                402
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                                                                    1.00
                                                                          18.05
ATOM
         2712
               N
                     LEU
                            B
                                403
                                          4.743 -13.559 29.019
                                                                    1.00
                                                                          19.54
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	MOTA	2713	CA	LEU	B	403	4.099	-13.148 3	0.259	1.00	20.21
	MOTA	2714	CB	Leu	B	403	5.155	-12.856 3	1.332	1.00	23.16
•	MOTA	2715	CG	LEU	B	403	4.639	-12.682 3	2,766	1.00	29.54
	ATOM	2716	CD1	LEU	B	403	5.519	-13.450 3		1.00	32.67
	ATOM	2717	CD2	LEU	В	403	4.626	-11.213 3		1.00	32.38
	ATOM	2718	С	LEU	В	403	3.219	-11.918 3		1.00	20.42
	ATOM	2719	0	LEU	В	403	3.638	-10.787 3		1.00	19.18
•	ATOM	2720	N	PHE	B	404	2.003	-12.145 2		1.00	21.44
	ATOM	2721	CA	PHE	В	404	1.066	-11.053 2		1,00	21.69
	ATOM	2722	CB	PHE	В	404	-0.199	-11.598 2		1.00	17.26
	ATOM	2723	CG	PHE	В	404	-0.026	-11.897 2		1.00	19.75
	ATOM	2724	CD1	PHE	B	404	0.364	-13.167 2		1.00	17.90
	ATOM	2725	CD2	PHE	В	404	-0.210	-10.897 2		1.00	17.04
	MOTA	2726	CE1	PHE	В	404	0.572	-13.434 2		1.00	19.88
	ATOM	2727	CE2	PHE	В	404	-0.007	-11.148 2	4.924	1.00	18.47
	ATOM	2728	CZ	PHE	B	404	0.386	-12.418 2	4.503	1.00	16.45
	ATOM	2729	C	PHE	В	404	0.768	-10.403 3	0.685	1,00	21.95
	ATOM	2730	0	PHE	В	404	0.656	-9.177 3		1.00	22.99
	MOTA	2731	N	ALA	8	405	0.670	-11.247 3	1.702	1.00	21.12
	MOTA	2732	CA	ALA	В	405	0.424	-10.814 3	3.066	1.00	22.43
	ATOM	2733	CB	ALA	В	405	-1.074	-10.603 3	3.304	1,00	24.69
	ATOM	2734	C	ALA	В	405	0.959	-11.926 3	3.962	1.00	22.40
	ATOM	2735	0	ALA	B	405	1.133	-13.061 33	3.517	1.00	21.67
	ATOM	2736	N	PRO	В	406	1.246	-11.612 3	5.230	1.00	25.60
	ATOM	2737	CD	PRO	В	406	1.129	-10.294 3	5.878	1.00	23.65
	ATOM	2738	CA	PRO	В	406	1.765	-12.632 3	5.148	1.00	25.91
	MOTA	2739	CB	PRO	В	406	1.899	-11.882 3	7.475	1.00	27.04
	ATOM	2740	CG	PRO	В	406	2.017	-10.431 3	7.068	1.00	26.56
	ATOM	2741	C	PRO	B	406	0.876	-13.873 3	8.259	1.00	25.12
	ATOM	2742	0	PRO	В	406	1.368	-14.967 3		1.00	28,92
	ATOM	2743	N	ASN	В	407	-0.426	-13.713 3		1.00	23.53
	ATOM	2744	CA	ASN	В	407	-1.345	-14.852 3		1.00	24.09
	ATOM	2745	CB	ASN	В	407	-2.553	-14.526 36		1,00	24.08
	ATOM	2746	CG	ASN	B	407	-3.327	-13,328 36		1.00	26.72
	ATOM	2747		ASN	В	407	-2.851	-12.574 35		1.00	22.65
	ATOM	2748	ND2	ASN	B	407	-4.528	-13.140 3'		1.00	26.46
	ATOM	2749	C	ASN	В	407	-1.820	-15.231 34		1.00	26.91
	ATOM	2750	0	ASN	B	407	-2.859	-15.870 34		1.00	28.68
	ATOM	2751 2752	N ·	LEU	В	408	-1.059	-14.816 33		1.00	27.28
	MOTA MOTA		CA	LEU	B	408	-1.387	-15.124 32		1.00	27.23
	ATOM	2753 2754	CB	LEU LEU	В	408	-2.247	-14.030 33		1.00	26.61
	ATOM	2755	CD1	LEU	B B	408 408	-2.815 -3.702	-14.464 30 -15.692 30		1.00	27.51
	ATOM	2756 2756	CD1	LEU	B	408				1.00	28.75
	ATOM	2757	CDZ	LEU			-3,598	-13.330 29		1.00	25.48
	ATOM	2758	0	LEU	B B	408	-0.113	-15.316 31 -14.465 30		1.00	27.56
	ATOM	2759	N	LEU	В	408 409	0.247			1.00	26.86
	ATOM	2760	CA	LEU	В	409	0.553	-16.426 33		1.00	27.54
	ATOM	2761	CB	LEU		409	1.786	-16.774 31		1.00	31.96
	MOTA	2762	CG		В		2.786	-17.355 32		1.00	31,88
	MOTA	2763	CD1	LEU LEU	e B	409 409		-17.703 31 -16.551 36		1.00	37.72
	ATOM	2764	CD1	LEU		409		-18.018 32			39.57
	ATOM	2765	CD2	LEU	B B	409		-18.018 32 -17.805 30		1.00 1.00	41,72
	ATOM	2766	0.	LEU	В	409		-18.892 30		1.00	31.53 32.67
	ATOM	2767	N	LEU	В	410		-17.465 28		1.00	29.58
	ATOM	2768	CA	LEU	В	410				1.00	31.55
	ATOM	2769	CB	LEU	В	410		-17.672 26		1.00	29.83
	MOTA	2770	CG	LEU	В	410				1.00	28.55
		27.0		10	۵	# T O	- 1.04/	1.000 Z	. 436	1.00	40.33

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TA	OM '9'	771	CD1	LEU	В	410	-1.770	-16 175	26.501	1.00	26.92
AT		772	CD2	LEU	B	410	-1.979		27.891	1.60	30.49
AT		773	c	LEU	В	410		-18.839		1.00	33.88
AT		774	Ö	LEU	B	410	3.427	-18.170		1.00	36.49
AT		775	N	ASP	В	411		-20.013		1.00	38.80
AT		776	CA	ASP	B	411	3.275	-20.562		1.00	38.39
ΑŤ		777	CB	ASP	В	411	3.657	-21.990		1.00	44.53
AT		778	CG	ASP	B	411	2.476	-22.943		1.00	44.90
AT	OM 21	779	OD1	ASP	₿	411	1.773	-23.035		1.00	45.70
AT	OM 21	780	OD2	ASP	В	411	2.254	-23.603	26.786	1.00	50.54
AT	21 MC	781	C	ASP	B	411	2.745	-20.551	23.909	1.00	38.57
ATC	OM 25	782	0	ASP	В	411	1.549	-20.341	23,686	1.00	36.48
ATC			N	ARG	B	412	3.635	-20.777	22.949	1.00	36.85
AT					В	412		-20.763		1.00	38.32
ĄŢ					B	412	4.488	-21.083		1.00	38.69
ATO					B	412		-22.314		1.00	40,05
ATO					В	412	5.644	-22.552		1.00	42.98
ATO					B	412		-22.099		1.00	40.95
AT(B	412	4.649	-22.559		1.00	41.11
ATC					B	412	3.777	-23.490		1.00	44.01
ATC					B B	412 412	4.632 2.107	-22.091 -21.712		1.00	41.28 37.64
ATO					B	412	1.287	-21.712		1.00	36.51
ATO						413	2.041	-22.834		1.00	35.32
ATO		•				413	0.974	-23,798		1.00	36.68
ATO						413	1.170	-25.035		1.00	37.54
ATO						413	2.017	-26.100		1.00	43.56
ATO						413	2.309	-26.022		1.00	46.11
ATO	DM 27	99	ND2	asn		413	2.418	-27.104		1.00	47.04
ATO	M 28	00	¢	asn	В	413	-0.383	-23.168	21.982	1.00	34.01
ATO			0	asn	B	413	-1.349	-23.372	21.247	1.00	32.43
ATO						414		-22.397		1.00	32.85
ATC						414		-21.741		1.00	31.91
ATC						414		-21.172		1.00	33.17
ATO						414		-22.242		1.00	32.31
ATO						414		-21.667		1.00	34.63
)TĄ)TA						414		-21.277		1.00	33.23
ATO						414 414		-21,606 -20.638		1.00	34.56 29.57
ATO						414		-20.204		1.00	31.32
ATO						415		-20.190		1.00	30.96
ATO						415		-19.160		1.00	34.27
ATC						415		-19.725		1.00	35.27
ATC						415		-19.000		1.00	33.20
ATO						416		-21.031		1.00	35.28
ATC	M 28	16 (CA :	LYS :	В	416		-21.707		1.00	38.26
ATC	M 28	17 (CB :	LYS :	В	416		-23.177		1.00	38.00
ATC	M 28	18 (CG :	LYS :	В	416		-23.407		1.00	40.05
ATC	M 28	19	CD :	LYS :	В	416	-0.405	-24.668	18.369	1.00	44.10
ATC		20	CE :	LYS	В	416	0.306	-25.541	17.346	1.00	41.85
ATC						416		-24.760		1.00	45.63
ATO						416	-4.321	-21.645	18.559	1.00	36.93
ATC								-21.790			38.36
ATO						417		-21.430			37.10
ATC								-21,371			36.46
ATC								-21.226			39.01
ATC								-22.710			43.81
ATO	M 28	28 (c (CYS	В	417	-5.899	-20.277	19.491	1.00	35.19

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ATOM	2829	0	CYS	В	417	-8 127	-20.296 19.485	1.00	33.92 -
ATOM	2830	-	VAL	B	418		-19.316 18.906		36.04
ATOM	2831		VAL	В	418		-18.236 18.163		34.59
ATOM	2832		VAL	В	418		-16.850 18.775	1.00	34.87
ATOM	2833	CG1	VAL	B	418		-15.763 17.765	1.00	35.32
ATOM	2834	CG2	VAL	B	418		-16.630 20.036	1.00	33.65
ATOM	2835	c	VAL	В	418		-18.317 16.764	1.00	34.17
MOTA	2836	ö.	VAL	В	418	-5.020		1.00	
MOTA	2837	N	GLU	B	419			1.00	33.44
ATOM	2838	CA	GLU	B	419		-18.500 14.390	1.00	34.52
ATOM	2839	CB	GLU	В	419		-18.722 13,380	1.66	36.21
ATOM	2840	CG	GLU	B	419	-8.597		1.00	44.19
ATOM	2841	CD	GLU	В	419	-9.477		1.00	48.47
ATOM	2842	OE1	GLU	В	419	-9,157		1.00	51.04
ATOM	2843	OE2	GLU	B	419	-10.484	-16.993 11.813	1.00	48.91
MOTA	2844	¢	GLU	В	419	-5.717	-17.289 13.997	1.00	32,89
ATOM	2845	0	GLU	В	419	-6.156	-16.144 14.123	1.00	31.09
MOTA	2846	N	GLY	В	420	-4.501	-17.562 13.535	1.00	32.84
ATOM	2847	CA	GLY	B	420	-3.594	-16.506 13.122	1,00	34.37
MOTA	2848	C	GLY	В	420	-2.722	-15.955 14.240	1.00	35.30
MOTA	2849	0	GLY	. B	420		-15.246 13.975	1.00	35.94
ATOM	2850	N	MET	В	421	-3.052	-16.285 15.486	1.00	30.08
ATOM	2851	CA	MET	В	421	-2.289	-15,780 16.625	1.00	29.22
ATOM	2852	CB	MET	В	421		-15.922 17.914	1.00	22.54
ATOM	2853	CG	MET	B	421		-15.270 19.124	1.00	23.82
ATOM	2854	SD	MET	В	421		-13.494 18.872	1.00	28.40
ATOM	2855	CE	MET	В	421		-12.800 19.233	1.00	24.67
ATOM ATOM	2856 2857	C O	MET MET	В	421	-0.912	-16.416 16.821	1.00	29.67
ATOM	2858	Ŋ	VAL	B B	421 422	0.022 -0.766	-15,751 17.269	1.00	29.76
MOTA	2859	CA	VAL	В	422		-17.694 16.484 -18.338 16.675	1.00 1.00	30.63 29.90
ATOM	2860	CB	VAL	В	422	0.482	-19.835 16.273	1,00	35.74
ATOM	2861	CG1	VAL	В	422	0.514	-19.992 14.753		37.64
ATOM	2862	CG2	VAL	В	422	1.659	-20.555 16.897	1.00	31.68
ATOM	2863	C	VAL	В	422	1.669	-17.640 15.935	1.00	28.64
ATOM	2864	0	VAL	В	422	2.788	-17.571 16.441	1.00	26.15
ATOM	2865	N	GLU	В	423	1.402	-17.113 14.747	1.00	28.70
AŢOM	2866	CA	GLU	В	423		-16.435 13.997	1.00	31.34
MOTA	2867	CB	GLU	В	423	1.963	-16.050 12.596	1.00	36.21
ATOM	2868	CG	GLU	В	423	0.502	-16.376 12.325	1.00	45.83
ATOM	2869	CD	GLU	B	423	0.250	-17,865 12.144	1.00	46.71
ATOM	2870	OE 1	GLU	B	423		-18.368 12.706	1.00	45.97
ATOM	2871	OE2	GLU	В	423			1.00	50.05
ATOM	2872	C	GLU	В	423	2.928	-15.186 14.744	1.00	30.57
ATOM	2873	0	GLU	В	423	4.119		1.00	
ATOM	2874	N	ILE	В	424		-14.478 15.378	1.00	26.19
ATOM	2875	CA	ILE	B	424		-13.279 16.111	1.00	26.23
ATOM	2876	CB	ILE	В	424		-12.435 16,452	1.00	29.33
ATOM	2877	CG2	ILE	В	424	1.492	•	1.00	30.91
MOTA	2878	CG1	ILE	В	424	0.584		1.00	29.09
ATOM	2879	CD1	ILE	B	424			1.00	30.51
ATOM	2880	C	ILE	В	424		-13.673 17.370	1.00	24.22
ATOM .	2881	N O	ILE	В	424		-13.037 17.725	1.00	21.05
ATOM .	2882 2883	CA	PHE PHE	B B	425		-14.746 18.023	1.00	21.71
ATOM	2884	CB	PHE	В	425 425		-15.236 19.223 -16.479 19.768	1.00	18.85
ATOM	2885	CG	PHE	В	425		-16.183 20.795	1.00 1.00	22.98 22.17
ATOM	2886	CD1	PHE	B	425		-17.112 21.792	1.00	25.47
		~~1		~	J	207		4.00	47.41

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ATOM
          2887
                CD2
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                            В
                                 425
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ATOM
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ATOM
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ATOM
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ATOM
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                C
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ATOM
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ATOM
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ATOM
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ATOM
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                OD1
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ATOM
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ATOM
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MOTA
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ATOM
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                      MET
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                                                 -12.228 15.520
                                                                    1.00
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MOTA
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                                                 -12.559 14.038
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ATOM
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                SD
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                                 427
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                                                                    1.00
                                                                           32.84
ATOM
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                CE
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                                                  -11.532 13.581
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                                           7.945
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                                                 -12.180 17.950
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                                                 -12.305 21.445
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                      LEU
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                                                 -14.178 20.679
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                            В
                                429
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ATOM
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MOTA
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               CA
                      ALA
                            B
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                                                 ~14.609 18.947
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                                                 -14.596 17.432
MOTA
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                      ALA
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                      ALA
                            В
                                430
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                                                 -13.315 19.440
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                            В
                                430
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                                                 -13.277 19.713
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                                                                          20.62
MOTA
         2930
               N
                      THR
                            В
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                                                 -12.258 19.567
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                      THR
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                                                                          22.67
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               CB
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                                                   -9.866 19.863
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                                                                          23.84
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         2934
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                                                   -8.489 20.073
                                                                    1.00
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         2935
               C
                      THR
                                                 -11.037 21.480
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                                431
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                                                                    1.00
                                                                          21.98
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               0
                      THR
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                                431
                                         13.595
                                                 -10.429 21.879
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               N
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                                         11.844
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               OG
                      SER
                            В
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                                                 -12.888 25.776
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               C
                      SER
                            В
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               0
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                                         14.305
                                                 -12.377 24.701
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MOTA
         2943
                      SER
               N
                            В
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                                         13.691 -13.628 22.932
                                                                   1.00
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MOTA
                     SER
         2944
               CA
                            В
                                433
                                         14.914 -14.421 22.928
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ATOM			SER	В	433	14.790 -15.575 21.938 1.00 30.84
atom			SER	В	433	14.761 -16.808 22.625 1.00 38.26
MOTA	_		SER	B	433	16.104 -13.550 22.548 1.00 31.47
MOŢA			SER	В	433	17.204 -13.701 23.087 1.00 28.43
MOTA			ARG	B	434	15.878 -12.641 21.607 1.00 29.55
ATOM	2950		ARG	В	434	16.926 -11.739 21.165 1.00 29.40
atom	2951		ARG	B	434	16.437 -10.912 19.977 1.00 31.56
atom	2952		ARG	В	434	17.428 -9.868 19.493 1.00 36.76
. ATOM	2953	CD	ARG	B	434	18.694 -10.502 18.919 1.00 37,76
atom	2954	NE	arg	B	434	19.654 -9.479 18.516 1.00 39.50
MOTA	2955		ARG	В	434	20.965 -9.673 18.418 1.00 44.17
atom	2956	NH1	ARG	B	434	21.492 -10.861 18.696 1.00 43.17
MOTA	2957	NH2	ARG	В	434	21.750 -8.671 18.048 1.00 43.05
MOTA	2958	C	ARG	В	434	17.328 -10.827 22.326 1.00 29.15
MOTA	2959		ARG	В	434	18.515 -10.612 22.569 1.00 28.82
MOTA	2960		PHE	В	435	16.337 -10.297 23.039 1.00 24.88
MOTA	2961	ÇA	PHE	В	435	16.600 -9.422 24.186 1.00 25.74
MOTA	2962	CB	PHE	В	435	15.278 -8.972 24.825 1.00 26.53
MOTA	2963	CG	PHE	В	435	14.656 -7.758 24.183 1.00 30.94
ATOM	2964	CD1	PHE	В	435	15.118 -7.271 22.966 1.00 32.65
ATOM	2965	CD2	PHE	B	435	13.592 -7.108 24.797 1.00 33.60
ATOM	2966	CE1	PHE	В	435	14.529 -6.155 22.372 1.00 36.84
ATOM	2967	CE2	PHE	B	435	12.997 -5.989 24.208 1.00 34.96
MOTA	2968	CZ	PHE	В	435	13.468 -5.516 22.995 1.00 31.64
ATOM	2969		PHE	В	435	17.426 -10.184 25.233 1.00 25.39
MOTA	2970	0	PHE	В	435	18.414 -9.675 25.764 1.00 22.59
ATOM	2971	И	ARG	В	436	16.999 -11.405 25.528 1.00 24.58
ATOM	2972	CA	ARG	В	436	17.675 -12.253 26.503 1.00 30.25
ATOM	2973	CB	ARG	В	436	16.898 -13.569 26.662 1.00 33.32
MOTA MOTA	2974 2975	CD CD	ARG ARG	В	436	17.232 -14.358 27.915 1.00 38.17
ATOM	2976	NE	ARG	B B	436 436	16.135 -15.367 28.260 1.00 37.27
ATOM	2977	CZ	ARG	В	436	15.646 -16.085 27.086 1.00 43.92 14.433 -15.923 26.557 1.00 46.68
ATOM	2978	NH1	ARG	В	436	14.433 -15.923 26.557 1.00 46.68 13.578 -15.061 27.097 1.00 45.59
ATOM	2979	NH2	ARG	В	436	14.074 -16.620 25.486 1.00 46.25
ATOM	2980		ARG	В	436	19.110 -12.531 26.048 1.00 29.82
ATOM	2981	-	ARG	В	436	20.057 -12.397 26.823 1.00 28.76
ATOM	2982	N	AMET		437	19.269 -12.921 24.789 0.50 30.27
ATOM	2983	N	BMET		437	19.252 -12.906 24.781 0.50 31.41
ATOM	2984	CA	AMET	В	437	20.591 -13.212 24.253 0.50 31.98
MOTA	2985	CA	BMET		437	20.547 -13.206 24.183 0.50 33.77
ATOM	2986	CB	AMET	В.	437	20.489 -13.646 22.788 0.50 31.34
ATOM	2987	CB	BMET	В	437	20.348 -13.595 22.714 0.50 35.88
ATOM	2988	CG	AMET	В	437	20.179 -15.127 22.592 0.50 33.62
ATOM	2989	CG	BMET	В	437	21.605 -13.594 21.861 0.50 40.47
ATOM	2990	SD		В	437	20.354 -16.099 24.109 0.50 35.21
ATOM	2991	SD	BMET	В	437	21.247 -13.937 20.115 0.50 46.79
ATOM	2992	CE		В	437	22.155 -16.194 24.259 0.50 33.20
MOTA	2993	CE	BMET	В	437	21.837 -15.632 19.976 0.50 43.22
ATOM	2994	С		В	437	21.498 -11.993 24.366 0.50 33.33
ATOM	2995			В	437	21.487 -12.005 24.289 0.50 34.45
ATOM	2996		AMET	В	437	
ATOM	2997		BMET	В	437	22.699 -12.162 24.438 0.50 34.43
ATOM	2998	N	MET	В	438	20.913 -10.809 24.215 1.00 32.07
ATOM	2999	CA	MET	В	438	21.674 -9.560 24.298 1.00 32.48
ATOM	3000	CB	MET	В	438	20.930 -8.437 23.578 1.00 29.74
MOTA	3001	CG	MET	В	438	21.161 -8.364 22.093 1.00 36.73
. ATOM	3002	SD	MET	В	438	20.425 -6.849.21.462 1.00 38.21

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•	ATOM	3003	CE	MET	В	438	21.693	-5.657 21.943	1.00	35.91
	MOTA	3004	C	MET	B	438	21.877	-9.122 25.738	1.00	28,81
	ATOM	3005	0	MET	В	438	22.686	-8.240 26.013	1.00	30.13
	ATOM	3006	N	ASN	В	439	21.120	-9.721 26.646	1.00	27.14
	ATOM	3007	CA	asn	B	439	21.199	-9.359 28.038	1.00	27.34
	ATOM	3008	CB	ASN	В	439	22.592	-9.524 28.598	1.00	34.85
	ATOM	3009	CG	ASN	B	439	22.624	-9.480 30.080	1.00	38.58
	MOTA	3010	OD1	ASN	В	439	21.584	-9,620 30.724	1.00	42.99
	MOTA	3011	ND2	ASN	В	439	23.801	-9.260 30. 6 66	1,00	41.14
	ATOM	3012	C	ASN	В	439	20.745	-7.903 28,212	1.00	26.24
	ATOM	3013	0	ASN	В	439	21.396	-7.106 28.891	1.00	19.76
	MOTA	3014	N	LEU	В	440	19.625	-7.564 27.573	1.00	24.90
•	ATOM	3015	CA	LEU	В	440	19.061	-6.214 27.633	1.00	25.04
	ATOM	3016	CB	LEU	В	440	17.761	-6.157 26.818	1.00	22.36
	ATOM	3017	CG	LEU	B	440	17.087	-4.786 26.740	1.00	26.33
	MOTA	3018	CD1	LEU	В	440	17.958	-3.843 25.923	1.00	28.33
	MOTA	3019	CD2	LEU	В	440	15.704	-4.914 26.111	1.00	24.81
	MOTA MOTA	3020	C	LEU	В	440	18.782	-5.785 29.074	1.00	24.71
	ATOM	3021 3022	N	LEU GLN	В	440	18.131	-6.504 29.830	1.00	26.96
	ATOM	3023	CA	GLN	B B	441 441	19.268 19.060	÷4.609 29.452 -4.099 30.807	1.00	25.54
	ATOM	3024	CB	GLN	В	441	20.250	-3.231 31.234	1.00	25.82 30.41
	ATOM	3025	CG	GLN	В	441	21.572	-3.956 31.228	1.00	30.50
	ATOM	3026	CD	GLN	В	441	21.610	-5.028 32.279	1.00	32.75
	ATOM	3027	OE1	GLN	В	441	21.539	-4.772 33,473	1.00	36.52
	ATOM	3028	NE2	GLN	В	441	21.703	-6.288 31.823	1.00	31.09
	ATOM	3029	С	GLN	В	441	17.789	-3.265 30.883	1.00	26.93
	ATOM	3030	0	GLN	В	441	17.303	-2.768 29.866	1.00	25.40
	ATOM	3031	N	GLY	В	442	17.266	-3.105 32.096	1.00	24.56
	ATOM	3032	CA	GLY	В	442	16.058	-2.327 32.293	1.00	22.82
	MOTA	3033	С	GLY	В	442	16.217	-0.873 31.885	1.00	24.19
	ATOM	3034	O .	GLY	В	442	15.290	-0.279 31.341	1.00	20.21
	MOTA	3035	N	GLU	B	443	17.387	-0.293 32.141	1.00	22.92
	ATOM	3036	CA	ĞLU	В	443	17.635	1.102 31,778	1.00	23.33
	ATOM	3037	CB	GLU	В	443	18.960	1.590 32,378	1.00	24.26
	ATOM	3038	CG	GLU	В	443	19.005	1,525 33.895	1.00	32.31
	ATOM	3039	CD	GLU	В	443	19.701	0.270 34.402	1.00	37.68
	ATOM	3040		GLU	В	443	19.343	-0.841 33.948		35.23
	ATOM ATOM	3041 3042	C C	GLU	В	443	20.607	0.394 35.252	1.00	42.47
	MOTA	3042	0	GLU GLU	B B	443 443	17.662	1.278 30.262	1.00	23.08
	MOTA	3044	N	GFA	В	444	17.265 18.128	2.328 29.747 0.253 29.552	1.00	21.80 21.16
	ATOM	3045	CA	GLU	В	444	18.123	0.302 28.093	1.00	22.60
	ATOM	3046	CB	GLU	В	444	19.046	-0.834 27.545	1.00	20.89
	ATOM	3047	ÇG	GLU	В	444	20.545	-0.617 27.705	1.00	23.24
	ATOM	3048	CD	GLU	В	444	21.340	-1.869 27.393	1.00	22:11
٠	ATOM	3049	OE1	GLU	В	444	20.817	-2.978 27.629	1.00	20.89
	ATOM	3050	OE2	GLU	В	444	22.488	-1.746 26.914	1.00	25.49
	ATOM	3051	С	GLU	В	444	16.758	0.155 27.552	1.00	21.06
	ATOM	3052	0	GLU	В	444	16.377	0.822 26.597	1.00	23.73
	ATOM	3053	N	PHE	В	445	15.987	-0.730 28.176	1.00	19.01
	ATOM	3054	CA	PHE	В	445	14.600	-0.969 27.792	1.00	19.44
	ATOM	3055	CB	PHE	В	445	13.989	-2.067 28.675	1,00	18.12
	ATOM	3056	CG	PHE	В	445	12.483	-2.055 28.709	1.00	18.13
	ATOM		CD1	PHE	В	4,45	11.746	-2.386 27.575	1,00	18.34
	ATOM		CD2	PHE	В	445	`11.802	-1.694 29.872	1.00	16.59
	ATOM	3059		PHE	В	445	10.346	-2.359 27.592	1.00	17.15
	ATOM	3060	CE2	PHE	В	445	10.406	-1.662 29.903	1.00	21.99

MOŢA	3061		PHE	В	445	9.674	-1.997 28.759	1.00	16.01
MOTA	3062	e	PHE	B	445	13,758	0.304 27.888	1.00	15.87
ATOM	3063	0	PHE	B	445	13.008	0.617 26.966	1.00	20.27
ATOM	3064	N	VAL	B	446	13.872	1.044 28.986	1.00	15.90
MOTA	3065	CA	VAL	В	446	13.074	2.269 29.112	1.00	16.78
ATOM	3066		VAL	В	446	13.165	2.895 30.531	1.00	18.32
ATOM	3067		VAL	В	446	12.574	1.923 31.551		21.14
MOTA	3068	CG2	VAL	В	446	14.598	3.251 30.879		21.04
MOTA	3069	C	VAL	В			3.295 28.051		
					446	13.450			17.91
ATOM	3070	0	VAL	В	446	12.596	4.028 27.561		19.37
ATOM	3071	N	CYS	B -	447	14.723	3.335 27.674		10.81
MOTA	3072	CA	CYS	B	447	15.161	4.255 26.635		17.34
ATOM	3073	CB	CYS	B	447	16.682	4.224 26.512		19.33
ATOM	3074	SG	CYS	B	447	17,538	5.134 27.798	1.00	23.60
ATOM	3075	C	CYS	В	447	14.537	3.826 25.301	1.00	18.09
MOTA	3076	0	CYS	В	447	13.988	4.643 24.563	1,00	17.52
ATOM	3077	N	LEU	В	448	14.623	2.533 25.006	1.00	15.60
ATOM	3078	CA	LEU	В	448	14.072	1.994 23.767	1,00	16.67
MOTA	3079	CB	LEU	В	448	14.328	0.490 23.684	1.00	14.82
ATOM	3080	CG	LEU	B	448	15.730	0.009 23.301		23.57
MOTA	3081	CD1	LEU	В	448	15.722	-1.522 23.169		21.61
ATOM	3082	CD2	LEU	В	448	16.167	0.658 21.986		18.92
ATOM	3083	Ç	LEU	В	448	12.573	2.249 23.652		15.98
ATOM	3084	õ	LEU	В	448	12.078	2.633 22.590		18.91
ATOM	3085	N	LYS	В	449	11.849	2.037 24.745		17.94
ATOM	3086	CA	LYS	B	449	10.405	2.232 24.733		
ATOM	3087	CB		В					16.66
			LYS		449	9,796	1.745 26.047		16.45
ATOM	3088	CG	LYS	В	449	8.285	1.861 26.115		16.12
ATOM	3089	CD	LYS	B.	449	7.730	0.952 27.193		19.09
ATOM	3090	CE	LYS	В	449	8.201	1.380 28.580		17.04
MOTA	3091	NZ	LYS	В	449	7.159	1.088 29.593	1.00	17.25
ATOM	3092	C	LYS	В	449	10.058	3,696 24.486	1.00	18.78
ATOM	3093	Q	LYS	В	449	9.103	3,996 23,769		14.84
ATOM	3094	N	SER	В	450	10.837	4.610 25.059	1.00	14.50
MOTA	3095	CA	SER	В	450	10.591	6.032 24.849	1.00	17.11
ATOM	3096	CB	SER	B	450	11.440	6.866 25.815	1,00	21.20
ATOM	3097	OG	SER	В	450	10.859	6.868 27,108	1.00	30,66
ATOM	3098	Ç	SER	B	450	10,921	6.418 23.405	1.00	17.84
ATOM	3099	0	SER	₿	450	10.279	7.292 22.821	1.00	18.82
MOTA	3100	N	ILE	В	451	11,926	5,768 22,828	1.00	16.88
ATOM	3101	CA	ILE	В	451	12.305	6.063 21.450	1.00	17,11
MOTA	3102	CB	ILE	В	451	13.564	5.268 21.025	1.00	16.69
ATOM	3103	CG2	ILE	В	451	13.724	5.298 19.505	1.00	19.31
ATOM	3104	CG1	ILE	В	451	14.804	5.897 21.676	1.00	18.96
ATOM	3105	CD1	ILE	В	451	16.083	5.130 21.431	1.00	18.98
ATOM	3106	C	ILE	B	451	11.142	5.711 20.527	1.00	18.09
ATOM	3107	Õ	ILE	В	451	10.820	6.464 19.608	1.00	17.07
ATOM	3108	и	ILE	В					
					452	10.505	4.571 20.786	1:00	18.13
ATOM	3109	CA	ILE	В	452	9.373	4,137 19.976	1.00	16.77
ATOM	3110	CB	ILE	В	452	8.804	2.775 20.477	1.00	17.40
ATOM	3111	CG2	ILE	В	452	7.464	2.496 19.831	1.00	14.33
ATOM	3112	CG1	ILE	В	452	9.763	1.635 20.107	1.00	15.36
ATOM	3113	CD1	ILE	B	452	9.449	0.323 20.805	1.00	17.76
MOTA	3114	С	ILE	В	452	8.271	5.195 20.024	1.00	17.47
MOTA	3115	0	ILE	В	452	7.733	5.586 18.992	1.00	16.50
ATOM	3116	N	LEU	В	453	7.943	5.665 21.222	1.00	16,06
ATOM	3117	CA	LEU	B	453	6.903	6.680 21.374	1.00	17.17
ATOM	3118	CB	LEU	В	453	6.736	7.061 22.850	1.00	16.23

A MOM	2110		1 1971	2	453	E 200	0 336			10 40
ATOM	3119	CG	LEU	B	.453	5,792	-	23.163	1.00	17.60
MOTA	3120	CD1	LEU	В	453	4.388		22.704	1.60	16.94
ATOM	3121	CD2	LEU	В	453	5.816		24.667	1,00	17.17
ATOM	3122	C	LEU	B	453	7.198		30.566	1.60	19.33
ATOM	3123	Ø	LEU	В	453	6.320		19.879	1.00	21.37
ATOM	3124	N	LEU	B	454	8.434		20.636	1.00	17.68
ATOM	3125	CA	LEU	B	454	8.789		19,933	1.00	20.93
ATOM	3126	CB	LEU	В	454	9.959		20.653	1.00	24.33
ATOM	3127	CG	LEU	B	454	9.735		22.130	1.00	26.16
MOTA	3128	CD1	LEU	B	454	11.046		22.749	1.00	24.82
MOTA	3129	CD2	LEU	В	454	8.658		22.259	1.00	23.79
ATOM	3130	С	LEU	В	454	9,120		18.449	1.00	20,75
ATOM	3131	0	LEU	B	454	8.941		17.673	1.00	21.33
MOTA	3132	Ņ	asn	В	455	9.566	8.311	18,042	1.00	20.54
atom	3133	CA	asn	В	455	9.951	8.093	16.651	1.00	19.46
ATOM	3134	CB	asn	В	455	11.147	7.149	16.584	1.00	18.58
ATOM	3135	CG	asn	В	455	11.576		15.161	1.00	17.64
MOTA	3136	OD1	ASN	B	455	12.106		14.496	1.00	18.40
MOTA	3137	ND2	ASN	B	455	11.343		14.686	1.00	15.06
ATOM	3138	e .	ASN	В	455	8.925	7.580	15.655	1.00	22.77
ATOM	3139	Ο,	ASN	B	455	8.790	8.127	14,564	1.00	21.94
ATOM	3140	N	SER	В	456	8.224	6.514	16.023	1.00	25.90
ATOM	3141	CA	SER	В	456	7.260	5.873	15.135	1.00	24.76
MOTA	3142	CB	SER	B	456	6.402	4.894	15.939	1.00	26.91
MOTA	3143	OG	SER	В	456	7.212	3.818	16,390	1.00	26.24
ATOM	3144	C	SER	В	456	6.385	6.774	14.272	1.00	26.52
ATOM	3145	0	SER	В	456	6.323		13.055	1.00	29.22
MOTA	3146	N	GLY	В	457	5.716	7.750	14.872	1.00	22.07
MOTA	3147	ÇA	GLY	В	457	4.879	8.627	14.076	1.00	25.19
ATOM	3148	C	GLY	B	457	5.510	9.973	13.765	1.00	28.59
MOTA	3149	0	GLY	₿	457	4.851	10.850	13.214	1,00	28.31
MOTA	3150	N	VAL	В	458	6.789	10.130	14.092	1.00	31.65
ATOM	3151	CA	VAL	₿	458	7.486	11.396	13.879	1.00	38.50
MOTA	31,52	CB	VAL	B	458	8.950	11.310	14.373	1.00	36.24
MOTA	3153	CG1	VAL	В	458	9.827	10.650	13.324	1.00	38.50
MOTA	3154	CG2	VAL	В	458	9.463	12.699	14.701	1.00	39.84
ATOM	3155	C	VAL	B	458	7.483	11.982	12.464	1.00	46.30
atom	3156	0	VAL	B	458	7.567	13.201	12,302	1.00	47.67
ATOM	3157	N	TYR	В	459	7.393	11.138	11.442	1.00	50.45
MOTA	3158	CA	TYR	B	459	7.385	11.640	10.069	1.00	57,07
ATOM	3159	CB.	TYR	В	459	8.233	10.740	9.170	1.00	57.05
MOTA	3160	CG	TYR	B	459	9.673	10.680	9.611	1.00	59.29
ATOM	3161	CD1	TYR	B	459	10.284	11.786	10.203	1.00	60.93
ATOM	3162	CE1	TYR	В	459	11,591	11.725	10.662	1.00	61.86
ATOM	3163	CD2	TYR	В	459	10.414	9.510	9.486	1.00	59.46
ATOM	3164	CE2	TYR	B	459	11.726	9.439	9.943	1.00	59.67
ATOM	3165	CZ	TYR	B	459	12.305	10.548	10.532	1.00	60.84
ATOM	3166	OH	TYR	В	459	13.593	10.477	11.009	1.00	61.39
ATOM	3167	C	TYR	В	459	5.976	11.753	9.514	1.00	61.22
ATOM	3168	0	TYR	В	459	5,629	12.750	8.874	1.00	62.89
ATOM	3169	N	THR	В	460	5.166	10.730	9.768	1.00	65.15
ATOM	3170	CA	THR	В	460	3.783	10.702	9.309	1.00	67.76
ATOM	3171	CB.	THR	В	460	3.178	9.283		1.00	68,02
ATOM	3172	OG1	THR	В	460	1.890	9.235	8.836	1.00	67.03
ATOM	3173	CG2	THR	В	460	3.040		10.938	1.00	67.31
ATOM	3174	C	THR	В	460	2.945	11.700		1.00	70.14
ATOM	3175	ō	THR	В	460	1.715	11.641		1.00	72.35
ATOM	3176	N .	PHE	В	461	3.625	12.620		1.00	72,64
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ATOM	3177		PHE	В	461	2.969	· · ·		
MOTA	3178		PHE	B	461	3.977			
MOTA	3179		PHE	В	461	4.235	14.789 13.492	1.00	74.32
MOTA	3180		PHE	В	461	3.200	14.609 14.404	1.00	73.98
ATOM	3181		PHE	B	461	5.517	15.025 13.975	1.00	75.22
ATOM	3182	CE1	PHE	₿	461	3.438	14.662 15.775	1.00	74.02
MOTA	3183	CE2	PHE	В	461	5.765	15.080 15.344	1.00	74.50
atom	3184	CZ	PHE	B	461	4.722	14.897 16,245	1.00	74.10
ATOM	3185	Ç	PHE	В	461	1.787	14.286 10.896	1.00	76.78
MOTA	3186	0	PHE	В	461	1.775	14.279 9.645	1.00	77.08
ATOM	3187		GLU	₿	470	7.873	23.789 14.718	1.00	80.19
ATOM	3188	C	GLU	В	470	8.958	21.731 15.650	1.00	79.30
ATOM	3189		GLU	B	470	9.887	21.518 16.432	1.00	78.21
ATOM	3190	N	GLU	B	470	9.096	22.235 13.227	1.00	80.22
ATOM	3191	CA	GLU	B	470	9.060	22.830 14.595		
ATOM	3192	N	GLU	В	471	7.823		1.00	80.03
ATOM	3193	CA	GLU	В	471	7.596	21.037 15.665	1,00	78.31
MOTA	3194	CB	GLU	В			19.956 16.617	1.00	75.83
ATOM					471	6.118	19.543 16.604	1.00	76.70
	3195	CG	GLU	В	471	5.742	18.544 15.516	1.00	78.42
ATOM	3196	CD	GLU	В	471	5.062	19.198 14.327	1.00	79.69
ATOM	3197	OE1	GLU	B	471	3.829	19.398 14.378	1.00	80.26
ATOM	3198	OE2	GLU	B	471	5.763	19.511 13.340	1.00	80.72
ATOM	3199	С	GLU	В	471	8.487	18.756 16.292	1.00	73.13
ATOM	3200	0	GLU	В	471	8.897	18.021 17.189	1.00	73.86
ATOM	3201	N	LYS	B	472	8.785	18.565 15.009	1.00	69.65
ATOM	3202	CA	LYS	В	472	9.639	17.461 14.581	1.00	64.40
MOTA	3203	CB	LYS	В	472	9.578	17.293 13.060	1.00	63.78
ATOM	3204	CG	LYS	В	472	8.343	16.552 12.566	1.00	64.49
ATOM	3205	CD	LYS	B	472	8.544	16.002 11.161	1.00	63,81
MOTA	3206	CE	LYS	В	472	7.379	16.368 10.249	1.00	.64.90
MOTA	3207	NZ	LYS	В	472	6.475	15.212 9.990	1.00	63.97
MOTA	3208	C	LYS	В	472	11.071	17.749 15.014	1.00	61.03
MOTA	3209	0	LYS	В	472	11.848	16.833 15.287	1.00	60.28
ATOM	3210	N	ASP	B	473	11.413	19.033 15.076	1.00	56.84
MOTA	3211	CA `	ASP	B	473	12.745	19.451 15.488	1.00	51.69
ATOM	3212	CB	ASP	В	473	12.923	20.940 15.242	1.00	50.36
ATOM	3213	C	ASP	В	473	12.923	19.138 16.970	1.00	49.18
ATOM	3214	0	ASP	B	473	13.959	18.619 17.385	1.00	46.85
MOTA	3215	N	HIS	В	474	11.898	19.449 17.758	1.00	45.35
ATOM	3216	CA	HIS	В	474	11.923	19.203 19.196	1.00	43.65
ATOM	3217	СВ	HIS	В	474	10.652	19.761 19.847	1.00	43;70
ATOM	3218	CG	HIS	В	474	10.458	19.326 21.267	1.00	43,86
MOTA	3219	CD2	HIS	В	474	11.095	19.688 22.406	1.60	44.12
ATOM	3220	ND1	HIS	В	474	9.510	18.395 21.638	1.00	46.60
ATOM	3221	CEl	HIS	В	474	9.572	18.202 22.943	1.00	45.29
ATOM	3222	NE2	HIS	В	474	10.526	18.975 23.434	1.00	47.96
ATOM	3223	С	HIS	В	474	12.030	17.707 19.471	1.00	42.38
ATOM	3224	o	HIS	B	474	12.834	17.273 20.298	1.00	42.83
ATOM	3225	N	ILE	В	475	11.214	16.923 18.773	1.00	38.86
ATOM		CA	ILE	В	475	11.222	15.475 18.943	1.00	36.53
ATOM	3227	CB	ILE	В	475	10.105	14.822 18.110	1.00	36.56
ATOM	3228	CG2	ILE	B	475	10.390	13.335 17.911	1.00	36.17
ATOM	3229	CG1	ILE	В	475	8.770	14.998 18.832		
ATOM	3230	CD1	ILE	В	475	7.598		1.00	35.81
ATOM	3231	CDI	ILE	В		•	14.410 18.094	1.00	41.77
ATOM	3232	0	ILE	B	475 475	12.575	14.898 18.532	1.00	33.72
ATOM	3232	N				13.112	14.023 19.207	1.00	31.50
ATOM			HIS	В	476	13.121	15.375 17.429	1.00	33.65
W T OLI	3234	CA	HIS	В	476	14.421	14.886 16.992	1.00	33.31

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ATOM	3235	СВ	HIS	В	476	14.782	15.481	15,637	1.00	37.30
MOTA	3236		HIS	₿	476	14.132		14.486	1.00	43.64
MOTA	3237	CD2	HIS	В	476	13.723		14.342	1.00	45.25
ATOM	3238	ND1	HIS	B	476	13.816	15.419	13.306	1.00	48.37
AŢOM	3239	CE1	HIS	B	476	13.238	14.560	12.484	1.00	48.87
ATOM	3240	NE2	HIS	B	476	13.170		13.089	1.00	48.11
ATOM ATOM	3241	C .	HIS	В	476	15.506		18.022	1.00	31.20
ATOM	3242 3243	N O	HIS ARG	B B	476 477	16.442 15.387		18.208 18.684	1.00	27.25
ATOM	3244	CA	ARG	В	477	16.361		19.703	1.00	30.64 30.09
ATOM	3245	СВ	ARG	В	477	16.144		20.121	1.00	33.46
ATOM	3246	CG	ARG	В	477	16.322		18.982	1.00	40.74
MOTA	3247	CD	ARG	В	477	16.274	20.649	19.479	1.00	45.91
MOŢA	3248	NE	ARG	В	477	17.514	21.020		1.00	51.37
ATOM	3249	CZ	ARG	B.	477	18,375	21.927		1.00	53.68
ATOM	3250	NH1	ARG	В	477	18.140	22.567		1.00	53.04
ATOM ATOM	3251 3252	NH2 C	ARG ARG	B B	477 477	19.480 16.232	22.185 15.835	-	1.00	51.79
ATOM	3253	0	ARG	В	477	17.233	15.387		1.00	26.97 27.34
ATOM	3254	N	VAL	В	478	14.999	15.558		1.00	23.70
ATOM	3255	CA	VAL	В	478	14.780	14.685		1.00	24.79
MOTA	3256	CB .	VAL	В	478	13.286	14.613	22.861	1.00	24.83
MOTA	3257	CG1	VAL	В	478	13.088	13.646		1.00	26.23
ATOM	3258	CG2	VAL	В	478	12.781	15.996		1.00	28.26
ATOM ATOM	3259 3260	С 0	VAL VAL	B B	478 478	15.284	13.294		1.00	26.10
ATOM	3261	N	LEU	В	478 479	15.919 15.021	12.613 12.889		1.00	24.28 22.92
ATOM	3262	CA	LEU	В	479	15.456	11.584		1.00	21.96
ATOM	3263	CB	LEU	В	479	14.992	11.372		1.00	22.63
MOTA	3264	CG	LEU	В	479	13.575	10.798		1.00	20.82
MOTA	3265	CD1	LEU	В	479	13.231	10.689		1.00	22.53
MOTA	3266	CD2	LEU	В	479	13.495		19.420	1.00	23.08
ATOM ATOM	3267 3268	С О	LEU	В	479	16.975	11.471		1.00	21.90
ATOM	3269	N	ASP	B B	479 480	17.506 17.675	10.416 12.560		1.00	23,11 23,65
ATOM	3270	CA	ASP	В	480	19,141	12.566		1.00	24.29
ATOM	3271	CB	ASP	В	480	19.692	13.889		1.00	26.88
ATOM	3272	CG	ASP	В	480	19.773	13.914		1.00	33.32
ATOM	3273	OD1	ASP	В	480	19.857	12.836		1.00	35.44
ATOM	3274	OD2	ASP	В	480	19.757	15.022		1.00	32.44
ATOM ATOM	3275 3276	С 0	ASP ASP	B B	480	19.590	12.406		1,00	24.13
MOTA	3277	И	LYS	В	480 481	20.551 18.887	11.697 13.077		1.00	24.88 25.18
ATOM	3278	CA	LYS	В	481	19.213	13.010		1.00	26.78
ATOM	3279	CB	LYS	В	481	18.262	13.898		1.00	31.37
ATOM	3280	CG	LYS	В	481	18.962	14.788		1.00	43.84
MOTA	3281	CD	LYS	В	481	18.780	14.260	27.219	1.00	46.08
MOTA	3282	CE	LYS	В	481	20.120	13.928		1.00	50.99
ATOM	3283	NZ	LYS	В	481	21.177	14.922		1.00	54.35
ATOM ATOM	3284 3285	C 0	LYS LYS	B	481	19.124	11.575		1.00	26.87
ATOM	3285	N	ILE	B B	481 482	19.951 18.124	11.145		1.00	20.37
ATOM	3287	CA	ILE	В	482	17.981	9,452		1.00	21.07
MOTA	3288	СВ	ILE	В	482	16.655	8.828		1.00	19.80
MOTA	3289	CG2	ILE	В	482	16.580	7.370		1.00	17.40
MOTA	3290	CG1	ILE	В	482	15.479	9.606		1.00	17.16
ATOM	3291	CD1	ILE	В	482	14.136	9.209		1.00	19.43
ATOM	3292	С	ILE	В	482	19.135	8.616	23.947	1.00	20.21

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ATOM	3293	0	ILE	B	482	19.621		24.640	1.00	25.55
ATOM	3294	N	THR	В	483	19.569		22.722	1.00	21.89
MOTA MOTA	3295 3296	CA CB	THR THR	B	483 483	20.701		22.141	1.00	22.67
ATOM	3297	OG1	THR	В	483 483	21.030 19.890		20.695	1.00	23.34
ATOM	3298	CG2	THR	В	483	22.203		19.851	1.00	27.33
ATOM	3299	C	THR	B	483	21,913		23.035	1.00	24.46
ATOM	3300	õ	THR	B	483	22.650		23,381	1.00	23.51 27.01
ATOM	3301	N	ASP	В	484	22.119		23.404	1.00	22.88
ATOM	3302	CA	ASP	В	484	23.237		24.276	1.00	24.93
ATOM	3303	CB	ASP	В	484	23.201		24.652	1.00	28.69
MOTA	3304	CG	ASP	В	484	23.504		23.485	1.00	29.19
ATOM	3305	OD1	ASP	В	484	23.982		22.437	1.00	29.63
ATOM	3306	OD2	ASP	B	484	23.256		23.627	1.00	32.02
ATOM	3307	C	ASP	В	484	23.125		25.567	1.00	24.40
ATOM	3308	0	ASP	В	484	24.125		26.103	1.00	25.60
ATOM	3309	N	THR	В	485	21.899	9.096	26,066	1.00	20.16
ATOM	3310	CA	THR	В	485	21.670	8.365	27.307	1.00	22.28
ATOM	3311	CB	THR	B	485	20.203	8.521	27.763	1.00	24.64
MOTA	3312	OG1	THR	B	485	19.878	9.914	27,830	1.00	24.28
MOTA	3313	CG2	THR	В	485	19.993		29.133	1.00	23.32
MOTA	3314	C	THR	В	485	22.017		27.188	1.00	22.13
ATOM	3315	0	THR	В	485	22.574		28.115	1.00	23.30
ATOM	3316	N	LEU	В	486	21.686		26.045	1.00	23.08
ATOM	3317	CA	LEU	В	486	21.969		25.792	1.00	22.26
MOTA MOTA	3318 3319	CB CG	LEU	В	486	21.346		24.464	1.00	20.93
ATOM	3320	CD1	LEU LEU	B	486 486	19.878 19.295		24.533	1.00	24.92
ATOM	3321	CD2	LEU	В	486	19.763		23.123 25.196	1.00 1.00	21.96 23.90
ATOM	3322	C	LEU	В	486	23.477		25.742	1.00	24.12
ATOM	3323	ō	LEU	В	486	23.984		26.334	1.00	24.02
ATOM	3324	N	ILE	В	487	24.191		25.022	1.00	24.53
ATOM	3325	CA	ILE	В	487	25.640		24.913	1.00	25.16
MOTA	3326	CB	ILE	В	487	26.207	6.379	23.899	1.00	25.57
MOTA	3327	CG2	ILE	В	487	27.725	6.522	24.051	1.00	24.54
ATOM		CG1	ILE	В	487	25.857	5.936	22.470	1.00	25.63
ATOM	3329	CD1	ILE	В	487	26.538		22.021	1.00	25.68
ATOM	3330	C	ILE	В	487	26.275		26.307	1.00	23.60
ATOM	3331	0	ILE	В	487	27.200		26.671	1.00	23.65
ATOM	3332	N	HIS	В	488	25.755		27.081	1.00	21.75
ATOM	3333	CA	HIS	В	488	26.251		28.431	1.00	26.07
ATOM ATOM	3334 3335	CB	HIS	B	488	25,450		29.041	1.00	26.99
ATOM	3336	CG CD2	HIS HIS	B B	488 488	25.818 25.245		30.455 31.629	1.00	33.06
ATOM	3337	ND1	HIS	В	488	26.869		30.779	1.00	32. 7 9 36.45
ATOM	3338	CE1	HIS	B	488	26.927		32.091	1.00	35.93
ATOM	3339	NE2	HIS	В	488	25.953		32.630	1.00	33.88
ATOM	3340	C	HIS	В	488	26,123		29.292	1.00	26.85
ATOM	3341	0	HIS	В	488	27.071		29.967	1.00	28.52
ATOM	3342	N	LEU	В	489	24.949		29.266	1.00	28.00
ATOM	3343	CA	LEU	В		24.715		30.040	1.00	25.94
ATOM	3344	CB	LEU	В	489	23.298		29.788	1.00	27.07
ATOM .	3345	CG	LEU	В	489	22.158		30.445	1.00	31.71
ATOM	3346	CD1	LEU	В	489	20.827	3.516	29.799	1.00	28.08
ATOM	3347	CD2	LEU	В	489	22.143		31.949	1.00	29.30
ATOM	3348	С	LEU	В	489		2.561		1.00	26.84
AŢOM	3349	0	LEU	В	489	26.241		30.486	1.00	20.86
ATOM	3350	N	MET	B	490	25.978	2.453	28.345	1.00	23.82

	3.001	2251	03	MDM	_						
	MOŢA	3351		MET	В	490	26.900	1.438 27.857		26.38	•
	MOȚA MOTA	3352 3353		MET MET	В	490	26.775	1.306 26.336		27.29	
	ATOM	3354		MET	B B	490 490	25.418	0.776 25.895		21.68	
	MOTA	3355		MET	В	490	25.208 23.461	0.739 24.106	1.00	26.30	
	ATOM	3356		MET	В	490	28,341	0.412 24.622	1.00	19.66	
	MOTA	3357		MET	В	490	29.109	1.743 28.247 0.833 28.574	1.00	26.42	
	ATOM	3358		ALA	В	491	28.713	3.018 28.207	1.00	24.76	
	ATOM	3359		ALA	B	491	30.074	3.394 28.577	1.00	26.67 30.73	
	ATOM	3360		ALA	В	491	30.299	4.882 28.335		26.66	
	ATOM	3361		ALA	В	491	30.250	3.053 30.056	1.00	32.08	
	ATOM	3362		ALA	B	491	31.194	2.361 30.438	1.00	34.66	
	ATOM	3363		LYS	В	492	29.316	3.523 30.878	1.00	33,17	
	ATOM	3364		LYS	B	492	29.354	3.267 32.309	1.00	32.82	
	ATOM	3365	CB	LYS	В	492	28.110	3.849 32.976	1.00	36.38	
	ATOM	3366	CG	LYS	В	492	28.412	4.797 34.123	1.00	38.68	
	ATOM	3367	CD	LYS	B	492	27.242	4.887 35,084	1.00	41,41	
	ATOM	3368	CE	LYS	B	492	26.299	6.013 34.698	1.00	47.57	
	MOTĄ	3369		LYS	В	492	26.395	7.184 35.618	1.00	50.76	
	ATOM	3370		LYS	В	492	29.453	1.771 32.619	1.00	34.08	
	ATOM	3371	0	LYS	В	492	30.090	1.382 33.593	1.00	34.31	
•	ATOM	3372	N	ALA	В	493	28.835	0.935 31.788	1.00	32.03	
	MOTA	3373	CA	ALA	В	493	28.867	-0.510 31.998	1.00	30.70	
	MOTA	3374	CB	ALA	В	493	27.719	-1.181 31.245	1.00	28.80	
	MOTA MOTA	3375 3376		ALA	В	493	30,201	-1.156 31.606	1,00	33.75	
	ATOM	3377	O N	ALA GLY	B	493	30.402	-2.356 31,819	1.00	30.53	
	ATOM	3378	CA	GLY	B B	494 494	31.102 32.405	-0.372 31.020 -0.903 30.656	1.00	33.50	
	ATOM	3379	C	GLY	В	494	32.639	-1.360 29.230	1.00	33,71 34.40	
	ATOM	3380	0	GLY	В	494	33.663	-1.989 28.950	1.00	33.13	
	ATOM	3381	N	LEU	В	495	31.712	-1.056 28.326	1.00	31.76	
	ATOM	3382	CA	LEU	В	495	31.859	-1.452 26.925	1.00	30.57	
	ATOM	3383	CB	LEU	В	495	30.494	-1.415 26.216	1.00	30.67	
	MOTA	3384	CG	LEU	В	495	29.610	-2.675 26.256	1.00	29.59	
	ATOM	3385	CD1	LEU	В	495	29.315	-3.058 27.700	1.00	26.60	
	AŢOM	3386	CD2	LEU	В	495	28.307	-2.416 25.501	1.00	27.52	
	MOTA	3387		LEU	₿	495	32.829	-0.515 26.202	1.00	30.53	
	MOTA	3388	0	LEU	В	495	32.855	0,688 26.468	1.00	28,14	
	ATOM	3389		THR	В	496	33.628	-1.064 25.291	1.00	28.03	
	ATOM	3390		THR	В	496	34.567	-0.243 24.529	1.00	29.06	
	ATOM ATOM	3391 3392		THR	В	496	35.511	-1.095 23.665	1.00	29.40	
	ATOM	3392	OG1 CG2	THR THR	В	496	34.753	-1.758 22.641	1.00	30.29	
	ATOM	3394		THR	B B	496 496	36.228	-2.122 24.515	1.00	28.12	
	ATOM	3395	0	THR	В	496	33.770 32.580	0.652 23.590 0.433 23.380	1.00	30.12	
	ATOM	3396	N	LEU	В	497	34.430	1.654 23.018	1.00	29.74 30.44	
	ATOM	3397	CA	LEU	В	497	33.762	2.567 22.104	1.00	28.54	
	ATOM	3398	CB	LEU	В	497	34.768	3.564 21.529	1.00	31.14	
	ATOM	3399	CG	LEU	В	497	35.209	4.719 22.434	1.00	33.58	
	ATOM		CD1	LEU	В	497	36.120	5.659 21.652	1.00	31.42	
	ATOM		CD2	LEU	В	497	33.992	5.469 22.942	1.00	35.08	
	ATOM	3402	С	LEU	В	497	33.095	1.800 20,967	1.00	27.35	
	MOTA	3403	0	LEU	В	497	31.967	2.105 20.574	1.00	24.03	
	ATOM	3404	N	GLN	В	498	33.798	0.797 20.447	1.00	26.17	
	ATOM	3405	CA	GLN	В	498	33.289	-0.009 19.348	1.00	26.32	
	ATOM	3406	CB	GLN	В	498	34.411	-0.876 18.771	1.00	27.25	
	ATOM	3407		GLN	В	498	33.967	-1.796 17.645	1.00	32.67	
	ATOM	3408	CD	GLN	В	498	34.965	-2.912 17.374	1.00	38.39	

MOTA	3409		GLN	В	498	35.737	-3.298 18.254	1.00	36.78
MOTA	3410	NE2	GLN	B	498	34.953	-3.437 16.153	1.00	33.18
MOTA	3411	C	GLN	В	498	32.112	-0.888 19.774	1.00	25.70
MOTA	3412	0	GLN	В	498	31.167	-1.076 19.009		25.35
ATOM	3413	N	GLN	B	499	32.173	-1.434 20.986	1.00	24.01
ATOM	3414	CA	GLN	В	499	31.093	-2.281 21.487	1.00	25.34
ATOM	3415	CB	GLN	В	499	31.501	-2.935 22,815	1.00	28.38
ATOM	3416	CG	GLN	В	499	32.537	-4.056 22.669	1.00	29.13
MOTA	3417	CĐ	GLN	В	499	32.913	-4.687 23.995	1.00	30.80
ATOM	3418	OE1	GLN	В	499	33.306	-3.997 24.937	1.00	33.62
ATOM	3419	NE2	GLN	B	499	32.797	-6.004 24.074	1.00	30.64
ATOM	3420	С	GLN	В	499	29.842	-1.430 21.693	1.00	25.70
ATOM	3421	Ø	GLN	В	499	28.715	-1.910 21.554	1.00	26.22
ATOM	3422	N	GLN	В	500	30.062	-0.160 22.020	1.00	23.09
ATOM	3423	CA	GLN	В	500	28.989	0.793 22.256	1.00	23.53
ATOM	3424	CB	GLN	В	500	29.564	2.107 22.782	1.00	26.17
ATOM	3425	CG	GLN	В	500	29.958	2.073 24.252	1.00	27.71
ATOM	3426	CD	GLN	B	500	30.812	3.262 24.641	1.00	29.32
ATOM	3427	OE1	GLN	В	500	30.559	4.386 24.207	1.00	28.48
ATOM	3428	NE2	GLN	В	500	31.831	3.021 25.463	1.00	25.07
ATOM	3429	C	GLN	В	500	28.151	1.074 21.015	1,00	24.24
ATOM	3430	Ö	GLN	В	500	26.923	0.949 21.053	1.00	24.40
ATOM	3431	N	HIS	В	501	28.790	1.465 19.915	1.00	23.08
ATOM	3432	CA	HIS	В	501	28.004	1.739 18.724	1.00	26.92
ATOM	3433	CB	HIS	В	501	28.791	2.577 17.697	1.00	32.00
ATOM	3434	ĊĠ	HIS	В	501	29.988	1.896 17.105	1.00	36.97
ATOM	3435	CD2	HIS	В	501	30.122	0.710 16.465	1.00	40.32
ATOM	3436	ND1	HIS	В	501	31.224	2.505 17.042	1.00	37.88
ATOM	3437	CE1	HIS	В	501	32.066	1.724 16.389	1.00	38.81
ATOM	3438	NE2	HIS	В	501	31.422	0.628 16.028	1.00	41.21
ATOM	3439	Ç	HIS	В	501	27.451	0.457 18.123	1.00	25.91
ATOM	3440	0	HIS	В	501	26.369	0.457 17.531	1.00	20.13
ATOM	3441	N	GLN	В	502	28.165	-0.648 18.317	1.00	24.94
ATOM	3442	CA	GLN	В	502	27.698	-1.926 17.804	1.00	21.88
ATOM	3443	CB	GLN	В	502	28.785	-2,996 17.953	1.00	24.62
MOTA	3444	CG	GLN	В	502	29,796	-3.001 16.797	1.00	26,55
MOTA	3445	CD	GLN	В	502	30.843	-4.109 16.902	1.00	27.06
ATOM	3446	OE1	GLN	B	502	30.716	-5.033 17.705	1.00	28.49
ATOM	3447	NE2	GLN	В	502	31.882	-4.018 16.078	1.00	21.90
ATOM	3448	C	GLN	В	502	26.428	-2.341 18.554	1.00	22.39
MOTA	3449	0	GLN	В	502	25.464	-2.807 17.944	1.00	22.24
MOTA	3450	N	ARG	В	503	26.421	-2.159 19.874	1.00	20.54
ATOM	3451	CA	ARG	В	503	25.259	-2.523 20.678	1,00	22.04
ATOM	3452	CB	ARG	В	503	25.602	-2.519 22.180	1.00	22.51
ATOM	3453	CG	ARG	В	503	24.451	-3.022 23.077	1.00	23.34
MOTA	3454	CD	ARG	В	503	24.853	-3.110 24.550	1.00	22.18
MOTA	3455	NE	ARG	В	503	23.743	-3.546 25.395	1.00	19.62
ATOM	3456	CZ	ARG	В	503	23.329	-4.807 25.497	1.00	19.88
MOTA	3457	NH1	ARG	В	503	23.933	-5.765 24.809	1.00	16.40
MOTA	. 3458	NH2	ARG	В	503	22.303	-5,110 26.280	1.00	19.71
ATOM	3459	С	ARG	В	503	24.102	-1.558 20.409	1.00	19.05
MOTA	3460	0	ARG	В	503	22.945	-1,968 20.351	1.00	18.87
ATOM	3461	N	LEU	В	504	24.414	-0.276 20.239	1.00	20.19
ATOM	3462	CA	LEU	В	504	23.375	0.714 19.969	1.00	19.33
MOTA	3463	CB	LEU	В	504	23.972	2.117 19.855	1.00	16.25
ATOM	3464	CG	LEU	В	504	22.983	3.173 19.344	1.00	20.35
ATOM	3465	CD1	LEU	В	504	21.930	3.449 20,427	1.00	17.97
MOTA	3466	CD2	LEU	В	504	23.729	4.448 18.955	1.00	20,86
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	ATOM	3467		LEU	В	504	22.659	0.357 18.667	1.00	21.22	• •
	ATOM	3468		LEU	В	504	21.433	0.478 18.566	1.00	19.28	
	MOTA	3469		ALA	B	505	23.428	-0.085 17.676	1.00	18.55	
	ATOM	3470		ALA	В	505	22.859	-0.473 16.396	1,00	18.20	
	ATOM	3471		ALA	В	505	23.973	-0.745 15.382	1.00	18.45	
	ATOM	3472	C	ALA AJA	В	505 505	21.986	-1.716 16.562	1.00	19.54	
	ATOM	3473	Q N	GĽN	B B	505 506	20.871	-1.774 16.041	1.00	17.63	
	atom Atom	3474	n Ca	GTN	B	506	22.497	-2.706 17.293	1.00	20.30	
	ATOM	3475 3476	CB	GLN	В	506 506	21.772 22.590	-3.955 17.513	1.00	19.48	
	ATOM	3477	CG	GLN	В	506 506	23.798	-4.893 18.409 -5.551 17.727	1,00	21.75 20.85	
	MOTA	3478	CD	GLN	B	506	24.819	-6.070 18.736	1.00	26.18	
	ATOM	3479	OE1	GLN	B	506 506	24.564	-6.084 19.943	1.00	21.83	
	ATOM	3480	NE2	GLN	B	506	25.977	-6.499 18.245	1.00	25.39	
	ATOM	3481	e	GLN	B	506	20.421	-3.672 18.166	1.00	21.39	
	AŢOM	3482	õ	GLN	В	506	19,396	-4.233 17.766	1.00	20.87	
•	ATOM	3483	N	LEU	B	507	20.433	-2,800 19.171	1.00	19.52	
	ATOM	3484	CA	LEU	B	507	19.219	-2.418 19.884	1.00	23.04	
	MOTA	3485	CB	LEU	В	507	19.548	-1.455 21.030	1.00	22.82	
	ATOM	3486	CG	LEU	В	507	20.182	-2.011 22.313	1.00	26.12	
	ATOM	3487	CD1	LEU	В	507	20.203	-0.916 23.360	1.00	29.33	
	ATOM	3488	CD2	LEU	В	507	19.415	-3.213 22.816	1.00	27.80	
	ATOM	3489	C	LEU	В	507	18.212	-1.730 18.971	1.00	22.19	
	ATOM	3490	O	LEU	В	507	17.036	-2.070 18.964	1.00	23.00	•
	ATOM	3491	N	LEU	В	508	18.678	-0.745 18.214	1.00	21.53	
	MOTA	3492	CA	LEU	В	508	17.797	0.006 17.332	1.00	20.60	
	MOTA	3493	CB	LEU	В	508	18.535	1.236 16.805	1.00	17.57	
	MOTA	3494	CG	LEU	В	508	18.934	2.218 17.913		17.67	
•	ATOM	3495	CD1	LEU	В	508	19.566	3.446 17.301	1,00	20.04	
	ATOM	3496		ĻĘU	В	508	17.724	2.611 18.725	1.00	18.49	
	ATOM	3497	C	LEU	В	508	17.235	-0.831 16.183	1.00	21.17	
	ATOM	3498	0	LEU	B	508	16.118	-0.597 15.728	1.00	21.88	
	ATOM	3499	N	LEU	B	509	18.000	-1.813 15.713	1.00	21.89	
	atom atom	3500 3501	CA	LEU	В	509	17.511 18.603	-2.657 14.631	1.00	22.81	
	ATOM	3501	CB CG	Leu Leu	B	509 509	19.645	-3.597 14.145	1.00	22.65 29.11	
	ATOM	3502		LEU	В	509	20.697	-2,891 13.278 -3.888 12,829	1.00 1.00	25.69	
	ATOM	3504		LEU	В	509	18.965	•	1.00		
•	ATOM		e	LEU	В	509	16.302		1.00	23.32	
	ATOM	3506		LEU	B	509	15.409		1.00	23.32	
	ATOM	3507		IĻE	В	510	16.264	-3.796 16.380	1.00	23.36	
	ATOM	3508		ILE	В	510	15.148	-4.562 16.912	1.00	20,99	
	ATOM	3509		ILE	В	510	15.448	-5.041 18.361	1.00	28.60	
	ATOM		CG2	ILE	В	510	14.162	-5.435 19.075	1.00	28.10	
	ATOM	3511		ILE	В	510	16.383	-6.260 18.308	1.00	26.57	
	ATOM	3512	CD1	ILE	В	510	17.429	-6.301 19.419	1.00	30.14	
	ATOM	3513	C	ILE	В	510	13.852	-3.746 16.846	1.00	17.65	
	ATOM	3514	0	ILE	В	510	12.767	-4.308 16.759	1.00	16.11	
	ATOM	3515	N	LEU	В	511	13.961	-2.421 16.867	1.00	18.12	
	MOTA	3516		LEU	В	511	12.772	-1.574 16.774	1.00	16,95	
•	MOTA	3517	•	LEU	В	511	13.147	-0.100 16.981	1.00	22.66	
	MOTA	3518		LEU	В	511	13.607	0.262 18.406	1.00	22.13	
	ATOM	3519		LEU	В	511	13.404	1.751 18.652	1.00	25.29	
	MOTA	3520		LEU	В	511	12.830	-0.549 19.425	1.00	25.08	
	ATOM		C	LEU	В	511	12.112	-1.771 15.397	1.00	16.65	
	ATOM	3522		LEU	В	511	10.915	-1.578 15.242	1.00	17.09	
	ATOM	3523		SER	В	512	12.901	-2.161 14.401	1.00	15,83	
	ATOM	3524	CA	SER	В	512	12.355	-2.408 13.072	1.00	18,66	

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ATOM	3525	CB	SER	В	512	13.484	-2.644 12.074	1.00	17.62
ATOM	3526	O G	SER	B	512	13,079	-3,550 11.062	1.00	32.77
MOTA	3527	C	SER	В	512	11.454	-3.638 13.154	1.00	18.54
MOTA	3528	0	SER	В	512	10.373	-3.683 12.545	1.00	17.01
ATOM	3529	N	HIS	В	513	11.899	-4.625 13,929	1.00	15.54
MOTA	3530	CA	HIS	В	513	11,141	-5.860 14.115	1.00	17.67
ATOM	3531	CB	HIS	В	513	12.013	-6.916 14.790	1.00	19.03
MOTA	3532	CG	HIS	B	513	13.063	-7.475 13.886	1.00	27.06
MOTA	3533	CD2	HIS	B	513	12.980	-8.364 12.868	1.00	28.40
MOTA	3534	NDI	HIS	В	513	14.378	-7.066 13.932	1.00	28.92
ATOM	3535	CE1	HIS	₿	513	15.061	-7.678 12.981	1.00	30.75
MOTA	3536	NE2	HIS	В	513	14.235	-8.472 12.321	1.00	30,08
ATOM	3537	C	RIH	B	513	9.895	-5.602 14.958	1.00	15.35
ATOM	3538	0	HIS	B	513	8.846	-6.192 14.704	1.00	14.83
ATOM	3539	N	ILE	B	514	10.012	-4.744 15.942	1.00	13.35
MOTA	3540	CA	ILE	B	514	8.865	-4.417 16.776	1.00	15,48
MOTA	3541	CB	ILE	B	514	9.295	-3.534 17.967	1,00	20.02
ATOM	3542	CG2	ILE	В	514	8.067	-2.918 18.650	1.00	12.84
MOTA	3543	CG1	ILE	B	514	10.093	-4.397 18.962	1.00	22.87
MOTA	3544	CD1	ILE	B	514	10.691	-3.641 20.115	1.00	29.62
ATOM	3545	Ç	ILE	В	514	7.797	-3.717 15.923	1.00	15.16
ATOM	3546	0	ILE	В	514	6.606	-3.972 16,078	1,00	16.61
MOTA	3547	N	ARG	В	515	8.224	-2.823 15.030	1.00	16.33
ATOM	3548	CA	ARG	В	515	7,280	-2.138 14.150	1.00	17.54
ATOM	3549	CB	ARG	В	515	8.010	-1.173 13.214	1.00	20.15
MOTA	3550	CG	ARG	В	515	7,080	-0.454 12.234	1.00	21.47
MOTA	3551	CD	ARG	В	515	6.407	0.749 12.891	1.00	26.05
MOTA	3552	NE	ARG	B		7.220	1.948 12.716	1.00	24.91
MOTA	3553	CZ	ARG	В	515	6.734	3.175 12.547	1.00	24.61
MOTA	3554	NH1	ARG	В	515	5.424	3.393 12.522	1.00	22.46
MOTA	3555	NH2	ARG	B	515	7.569	4.182 12,374	1.00	23.15
MOTA	3556	C	ARG	В	515	6.545	-3.182 13.304	1.00	16.60
ATOM	3557	0	ARG	В	515	5.332	-3.093 13.087	1.00	14.51
ATOM	3558	N	HIS	В	516	7.298	-4.171 12.827	1.00	18.50
MOTA	3559	CA	HIS	В	516	6.743	-5.237 11.997	1.00	17.26
ATOM	3560	CB	HIS	В	516	7,861	-6.176 11.533	1.00	18.14
ATOM	3561	CG	HIS	В	516	7.405	-7.223 10.568	1.00	24.87
ATOM	3562	CD2	HIS	В	516	7.060	-8.521 10.754		26.64
MOTA	3563		HIS	B	516	7.258	-6.978 9.220	1.00	21.82
MOTA	3564		HIS	В	516	6.839	-8.078 8.619	1.00	28.42
ATOM	3565		HIS	В	516	6.711	-9.028 9.526	1.00	24.47
ATOM	3566	C	HIS	В	516	5.685	-6.028 12.759	1.00	16.87
ATOM	3567		HIS	В	516	4.596	-6.303 12.240	1.00	14.81
ATOM	3568	N	MET	В	517	5999	-6.396 13.997	1.00	16.48
ATOM	3569		MET	В	517	5,049	-7.162 14.801	1.00	15.39
MOTA	3570	CB	MET	В	517	5.701	-7.587 16.114	1.00	21.05
ATOM	3571	CG	MET	В	517	6.790	-8.638 15.917	1.00	20.76
MOTA	3572	SD	MET	В	517	7.380	-9.320 17.470	1.00	23.96
ATOM	3573		MET	В	517	8.104	-7.879 18.226	1.00	20.45
ATOM	3574		MET	В	517	3.789	-6.368 15.080	1.00	16.23
ATOM	3575 3576		MET	В	517	2.688	-6.924 15.148	1.00	16.02
ATOM		N	SER	В	518	3.954	-5.060 15.247	1.00	13.32
ATOM	3577		SER	В	518	2.827	-4.186 15.505	1.00	16.34
ATOM	3578	CB	SER	В	518	3.316	-2.765 15.835	1.00	17.48
ATOM			SER	В	518	2.234	-1.840 15.843	1.00	17.46
ATOM			SER	В	518	1.906	-4.147 14.284	1.00	14.73
ATOM	3581 3582		SER	В	518 510	0.688	-4.247 14.417	1.00	19.16
ATOM	2204	7.4	ASN	В	519	2.474	-4.006 13.091	1.00	14.52

A TOM	2502	CA	A CM	В	E10	1 633	959 11 969	1 00	15 95 -
MOTA MOTA	3583 3584	CA CB	asn Asn	B	519 519	1.622 2.432	-3.953 11.907 -3.509 10.698	1,00 1.00	15.35 - 19.21
ATOM	3585	CG	ASN	В	519	2.700	-2.029 10.729	1.00	20.58
ATOM	3586	OD1	ASN	В	519	1.839	-1.258 11.150	1.00	26.36
ATOM	3587	ND2	ASN	В	519	3.891	-1.618 10.307	1.00	19.62
ATOM	3588	C	ASN	В.	519	0.911	-5.280 11.658	1.00	16.74
ATOM	3589	0	ASN	В	519	-0.265	-5.299 11.297	1.00	20.58
ATOM			LYS	В	520	1.608	-6.387 11.885	1.00	18.60
ATOM	3591	CA	LYS	В	520	0.992	-7.699 11.717	1.00	20.04
ATOM	3592	СВ	LYS	В	520	2.038	-8.801 11.872	1.00	25.44
ATOM	3593	CG	LYS	В	520	3.037	-8.849 10.728	1.00	31.68
ATOM	3594	CD	LYS	В	520	2.507	-9.663 9.558	1.00	42.56
ATOM	3595	CE	LYS	В	520	2.186	-8.778 8.364	1.00	45.61
ATOM	3596	NZ	LYS	В	520	1.435	-9.526 7.312	1.00	46.00
ATOM	3597		LYS	В	520	-0.099	-7.868 12.769	1.00	18.88
MOTA	3598	ō	LYS	В	520	-1.183	-8.358 12.478	1.00	21.75
ATOM	3599	N	GLY	В	521	0.191	-7.455 13,998	1.00	17.83
ATOM	3600	CA	GLY	B.	521	-0.792	-7.569 15.058	1.00	16.19
ATOM	3601	C	GLY	В	521	-2.000	-6.674 14.833	1.00	16.59
ATOM	3602	ō	GLY	В	521	-3.128	-7.060 15.125	1.00	16.57
ATOM	3603	N	MET	В	522	-1.766	-5.467 14.326	1.00	17.48
ATOM	3604	CA	MET	В	522	-2.852	-4.527 14.042	1.00	18.25
ATOM	3605	СВ	MET	В	522	-2.276	-3.212 13.516	1.00	21.27
ATOM	3606	CG	MET	В	522	-3.190	-2.018 13.707	1,00	26.97
MOTA	3607	SD	MET	В	522	-3.199	-1.477 15.417	1.00	30.35
ATOM	3608	CE	MET	В	522	-1.659	-0.605 15.475	1.00	29.86
ATOM	3609	С	MET	В	522	-3.794	-5.119 12.989	1.00	18.68
MOTA	3610	0	MET	В	. 522	-5.022	-5.008 13.097	1.00	18.80
ATOM	3611	И	GLU	В	523	-3.205	-5.731 11.966	1.00	18.22
ATOM	3612	CA	GLU	В	523	-3,968	-6.357 10.889	1.00	23.41
ATOM	3613	CB	GLU	B	523	-3.031	-6.946 9.830	1.00	28.74
ATOM	3614	CG	GLU	В	523	-2.224	-5.935 9.030	1.00	34.42
ATOM	3615	CD	GLU	В	523	-1.095	-6.597 8.239	1.00	45.58
ATOM	3616	OE1	GLU	В	523	-0.131	-5.894 7.857	1.00	49,48
ATOM	3617	OE2	GLU	В	523	-1.169	-7.825 7.999	1.00	45.97
ATOM	3618		GLU	В	523	-4.812	-7.482 11.465	1.00	23.98
ATOM	3619		GLU	В	523	-5.993	-7.616 11.147		22.08
MOTA	3620		HIS	В	524	-4.187	-8.287 12.326	1.00	23.46
ATOM ATOM	3621 3622	CA	HIS	В	524 524	-4.846	-9.428 12.952	1.00	26.20
ATOM	3623	CB CG	HIS HIS	В	524 524		-10.245 13.743	1.00	27.26 30.91
ATOM	3623	CD2	HIS	B B	524 524		-11.509 14.321 -12.792 13.892	1.00	30.91
ATOM	3625	ND1	HIS	В	524 524		-12.792 13.892	1.00	28.87
ATOM	3626	CE1	HIS	В	524 524		-12.780 15.757	1.00	30.45
ATOM	3627	NE2	HIS	В	524		-13.561 14.803	1.00	29.19
ATOM	3628		HIS	В	524	-5.996	-9.025 13.870	1.00	27.69
ATOM	3629		HIS	В	524	-7.061	-9.656 13.860	1.00	25.00
ATOM	3630		LEU	В	525	-5.777	-7.977 14.655	1.00	23.84
ATOM	3631	CA	LEU	В	525	-6.786	-7.492 15.588	1.00	25.77
ATOM	3632	CB	LEU	В	525	~6.217	-6.358 16.444	1.00	22.22
ATOM	3633	CG	LEU	В	525	-7.164	-5.778 17.498	1.00	26.81
ATOM		CD1	LEU	В	525	-7.763	-6.922 18.321	1.00	23.32
ATOM	3635	CD2	LEU	В	525	-6.414	-4.793 18.399	1.00	18.95
ATOM	3636	C	LEU	В	525	-8.013	-6.995 14.842	1.00	26.84
ATOM	3637	0	LEU	В	525	-9.154	-7.247 15.249	1.00	26.73
ATOM	3638	N	TYR	В	526	-7.764	-6.271 13.757	1.00	26.86
ATOM	3639		TYR	В	526	-8.819	-5.726 12.918	1.00	30.89
ATOM	3640		TYR	В	526	-8.201	-4.818 11.854	1.00	34.31

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ATOM	3641	CG	TYR	В	526	-9.183	3 -4.223 10.878	1.00	43.50
ATOM	3642		TYR	В	526	-10.038			
ATOM	3643		TYR	В	526	-10.943			
ATOM	3644		TYR	В	526	-9.218			
MOTA	3645		TYR	В	526	-10.098		•	
ATOM	3646		TYR	В	526	-10.955			51.67
ATOM	3647		TYR	В	526	-11.810			57.01
ATOM	3648		TYR	В	52¢	-9.577			30.90
ATOM	3649		TYR	В	526	-10.793		•	31.48
ATOM	3650		SER	В	527	-8.849			31.39
ATOM	3651	CA	SER	В	527	-9.460			33.73
ATOM	3652		SER	B	527	-8.377		•	34.13
ATOM	3653	OG	SER	В	527	-8.945			43.67
ATOM	3654		SER	В	527	-10.339			34.34
ATOM	3655	ō	SER	В	527	-11.446			33.42
ATOM	3656	N	MET	В	528	-9.840			31.66
ATOM	3657	CA	MET	В	528		-10.572 14.589		29.77
ATOM	3658	CB	MET	В	528	-9.682			32.96
ATOM	3659	CG	MET	B .	528	-8.651			33.47
ATOM	3660	\$D	MET	В	528	-9.359			38.28
ATOM	3661	CE	MET	В	528		-13.915 16.579		36.01
ATOM	3662	C	MET	В	528	-11.800			29.42
ATOM	3663	Ō	MET	В	528	-12.835			28.65
ATOM	3664	N	LYS	В	529	-11.673			30.64
ATOM	3665	CA	LYS	В	529	-12.781		-	31.80
MOTA	3666	CB	LYS	В	529	-12.323			32,86
ATOM	3667	CG	LYS	В	529	-13.436	•		36.42
ATOM	3668	CD	LYS	В	529	-13.114			41.74
ATOM	3669	ÇE	LYS	В	529	-13.734			43.45
ATOM	3670	NZ	LYS	В	529	-15,221	-2.569 14.634		46.51
ATOM	3671	C	LYS	B	529	-13.857	-7.840 14.116	1.00	36.60
MOTA	3672	0	LYS	В	529	-15.049	-7.877 14.424	1.00	34.04
ATOM	3673	N	CYS	B	530	-13.407	-8.083 12.889	1.00	40.04
ATOM	3674	CA	CYS	В	530	-14.286	-8.409 11.773	1.00	44.58
MOTA	3675	CB	CYS	В	530	-13.460	-8.535 10.491	1.00	50.64
MOTA	3676	SG	CYS	В	530	-13.369		1.00	67.65
ATOM	3677	C	CYS	В	530	-15.065		1.00	42.88
ATOM	3678	0	CYS	В	530	-16.274			40.15
ATOM	3679	N	LYS	В	531,		-10.733 12.447		41.92
ATOM	3680	CA	LYS	В	531		-12.023 12.728	1.00	42.60
ATOM	3681	CB	LYS	В	531		-13.091 12.927	1.00	44.77
ATOM	3682	C	LYS	В	531		-11.907 13.977	1.00	44.43
MOTA	3683	0	LYS	В	531		-12.804 14.296	1.00	44.09
ATOM	3684	N	ASN	В	532		-10.793 14.685	1.00	44.98
ATOM	3685	CA	ASN	В	532		-10.496 15.893	•	44.10
ATOM ATOM	3686	CB	ASN	В	532	-17.833		1.00	45.14
ATOM	3687	CG	ASN	В	53 <u>2</u>	-18.526	-9.271 16.633	1.00	46.54
ATOM	3688 3689	OD1 ND2	ASN	В	532	-19.729		1.00	50.62
ATOM	3690	C C	asn Asn	B	532	-17.771	-8.471 17.375	1.00	46.07
ATOM	3691	o.		B	532		-11.657 16.882	1.00	43.34
ATOM.	3692	Ŋ	asn Val	B B	532 533		-11.994 17.321 -12.264 17.243	1.00	41.42
ATOM	3693	CA	VAL					1.00	43.45
ATOM	3694	CB	VAL	B	533 533		-13.371 18.190	1.00	44.06
ATOM	3695	CG1	VAL	B B	533 533		-14.219 18.120	1.00	45.56
ATOM	3696	CG2	VAL	В	533 533		-14.263 16.683	1.00	45.67
ATOM	3697	C	VAL	В	533 533		-13.644 19.045 -12.835 19.611	1.00	44.16
ATOM	3698	0	VAL	В	533 533		-12.835 19.611	1.00 1.00	43.24 44.21
		-		~	J J J	13.034	- 13.002 20.040	1.00	44.6L

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ATOM 3700 CA VAL B 534 -15.596 -11.511 19.755 1.00 40.44 ATOM 3701 CB VAL B 534 -14.630 -11.259 22.038 1.00 37.80 ATOM 3702 CG1 VAL B 534 -14.630 -11.259 22.038 1.00 36.38 ATOM 3703 CG2 VAL B 534 -15.021 -10.910 23.463 1.00 39.34 ATOM 3704 C VAL B 534 -15.021 -10.910 23.463 1.00 39.34 ATOM 3705 CO VAL B 534 -15.022 -8.808 20.008 1.00 39.34 ATOM 3706 N PRO B 535 -16.575 -8.579 21.625 1.00 37.97 ATOM 3707 CD PRO B 535 -15.026 -8.808 20.008 1.00 39.45 ATOM 3708 CD PRO B 535 -17.529 -9.978 22.640 1.00 39.74 ATOM 3708 CD PRO B 535 -17.829 -9.078 22.640 1.00 39.74 ATOM 3708 CP PRO B 535 -17.846 -6.729 22.288 1.00 35.98 ATOM 3710 CG PRO B 535 -17.846 -6.729 22.288 1.00 33.95 ATOM 3711 CC PRO B 535 -15.338 -6.472 20.040 1.00 33.75 ATOM 3712 C PRO B 535 -14.766 -6.924 22.049 1.00 33.95 ATOM 3713 N LEU B 536 -14.766 -6.924 22.049 1.00 33.95 ATOM 3713 C LEU B 536 -14.766 -6.924 22.049 1.00 33.95 ATOM 3713 C LEU B 536 -14.766 -6.924 22.049 1.00 33.42 ATOM 3713 C LEU B 536 -14.766 -6.924 22.049 1.00 33.42 ATOM 3713 C LEU B 536 -14.766 -6.924 22.049 1.00 33.42 ATOM 3713 C LEU B 536 -13.1675 -4.732 21.851 1.00 33.40 ATOM 3713 C LEU B 536 -13.1675 -4.732 21.851 1.00 33.40 ATOM 3713 C LEU B 536 -13.1675 -4.732 21.851 1.00 33.40 ATOM 3713 C LEU B 536 -12.219 -5.433 1.00 30.06 ATOM 3713 C LEU B 536 -12.219 -5.433 1.00 29.91 ATOM 3720 C LEU B 536 -12.219 -5.433 1.00 29.91 ATOM 3721 N TW B 537 -12.219 -7.432 21.719 1.00 30.65 ATOM 3722 C A TWR B 537 -12.024 -2.829 22.838 1.00 29.99 ATOM 3723 C B TWR B 537 -12.024 -2.829 22.838 1.00 29.99 ATOM 3724 C C TWR B 537 -12.024 -2.829 22.838 1.00 29.99 ATOM 3725 C D TWR B 537 -12.640 -2.829 22.838 1.00 29.99 ATOM 3726 C B TWR B 537 -12.640 -2.829 22.838 1.00 29.99 ATOM 3727 C D EU B 536 -14.749 -2.829 22.838 1.00 29.99 ATOM 3730 C B TWR B 537 -12.640 -2.829 22.838 1.00 29.99 ATOM 3730 C B TWR B 537 -12.640 -2.829 22.838 1.00 29.89 ATOM 3731 C B EU B 536 -12.210 -2.829 22.838 1.00 29.89 ATOM 3732 C B TWR B 537 -12.640 -2.829 22.838 1.00 29.89 ATOM 3731 C B EU B 538 -12.220 -2.829 1.00 30.60												
ATOM 3701 CB VAL B 534 -11.259 22 0.38 1.00 35.38 ATOM 3702 CG1 VAL B 534 -11.324 -10.575 21.688 1.00 34.35 ATOM 3703 CG2 VAL B 534 -15.026 -0.876 21.00 39.34 ATOM 3703 C VAL B 534 -15.026 -0.808 20.008 1.00 39.34 ATOM 3705 O VAL B 534 -15.026 -0.808 20.008 1.00 39.45 ATOM 3706 N PRO B 535 -16.502 -0.808 20.008 1.00 39.45 ATOM 3707 CD PRO B 535 -16.502 -0.808 20.008 1.00 39.45 ATOM 3708 CA PRO B 535 -16.502 -7.829 21.625 1.00 37.81 ATOM 3709 CB PRO B 535 -16.502 -7.829 21.628 1.00 36.79 ATOM 3709 CB PRO B 535 -16.502 -7.829 21.828 1.00 36.98 ATOM 3710 CG PRO B 535 -18.004 -7.809 23.298 1.00 39.77 ATOM 3711 C PRO B 535 -14.786 -6.963 23.040 1.00 39.75 ATOM 3711 C PRO B 535 -14.786 -6.963 23.040 1.00 33.95 ATOM 3713 N LEU B 536 -14.881 -5.426 21.409 1.00 33.42 ATOM 3715 CB LEU B 536 -14.881 -5.426 21.409 1.00 33.42 ATOM 3715 CB LEU B 536 -12.219 -5.433 19.798 1.00 30.06 ATOM 3716 CG LEU B 536 -12.229 -5.433 19.798 1.00 30.05 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3719 C LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3721 N TYR B 537 -13.231 -3.194 22.676 1.00 29.99 ATOM 3722 CA TYR B 537 -12.618 -2.071 28.790 1.00 39.46 ATOM 3722 CA TYR B 537 -12.618 -2.071 28.790 1.00 39.46 ATOM 3723 CB TYR B 537 -12.618 -2.071 28.790 1.00 47.39 ATOM 3723 CB TYR B 537 -12.618 -2.072 28.564 1.00 39.46 ATOM 3723 CB TYR B 537 -12.618 -2.072 28.590 1.00 39.46 ATOM 3723 CB TYR B 537 -12.618 -2.072 28.590 1.00 39.46 ATOM 3730 OH TYR B 537 -13.494 -2.602 2.709 1.00 47.39 ATOM 3731 C TYR B 537 -12.618 -2.077 28.291 1.00 47.39 ATOM 3732 CB TYR B 537 -12.618 -2.077 28.292 1.00 47.39 ATOM 3733 CB SAP B 538 -14.744 -2.092 24.898 1.00 39.46 ATOM 3734 CA ASP B 538 -14.748 2.592 24.898 1.00 39.46 ATOM 3737 CD TYR B 537 -12.62 -5.692 2.791 1.00 47.39 ATOM 3737 CD SAP B 538 -14.792 2.292 2.391 1.00 19.65 ATOM 3734 CB LEU B 539 -14.666 22 2.292 2.391 1.00 19.65	ATOM		N		B	534	-15.596	-11.511	19.755	1.00	40.44	
ATOM 3702 CG21 VAL B 534 -13.324 -10.575 21.688 1.00 34.35 ATOM 3703 CG VAL B 534 -15.021 -10.910 23.48 1.00 37.95 ATOM 3705 O VAL B 534 -15.022 -9.329 20.857 1.00 37.95 ATOM 3705 O PRO B 535 -16.575 -8.808 20.008 37.81 ATOM 3708 CA PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3710 CB PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3711 CC PRO B 535 -16.608 -7.135 21.492 1.00 33.95 ATOM 3711 C PRO B 535 -16.609 -7.135 21.492 1.00										1.00	37.80	
ATOM 3704 C VAL B 534 -15.021 -10.910 23.463 1.00 19:34 ATOM 3705 C VAL B 534 -15.752 -9.329 20.857 1.00 37.97 ATOM 3706 N PRO B 535 -16.575 -8.597 21.625 1.00 37.81 ATOM 3707 CD PRO B 535 -16.575 -8.597 21.625 1.00 37.81 ATOM 3707 CD PRO B 535 -16.575 -8.597 21.625 1.00 37.81 ATOM 3708 CA PRO B 535 -17.636 -6.729 22.286 1.00 36.79 ATOM 3709 CB PRO B 535 -17.846 -6.729 22.288 1.00 36.79 ATOM 3709 CB PRO B 535 -17.846 -6.729 22.288 1.00 39.77 ATOM 3711 C PRO B 535 -15.338 -6.494 22.049 1.00 33.95 ATOM 3711 C PRO B 535 -14.7846 -6.963 21.049 1.00 33.95 ATOM 3711 C PRO B 535 -14.7846 -6.963 21.049 1.00 33.95 ATOM 3711 C PRO B 535 -14.7846 -6.963 21.049 1.00 33.42 ATOM 3713 N LEU B 536 -12.219 -5.433 19.798 1.00 39.77 ATOM 3713 N LEU B 536 -12.219 -5.433 19.798 1.00 39.45 ATOM 3713 N LEU B 536 -12.219 -5.433 19.798 1.00 39.85 ATOM 3716 CD LEU B 536 -12.219 -5.433 19.798 1.00 30.85 ATOM 3718 CD2 LEU B 536 -12.219 -5.433 19.798 1.00 30.85 ATOM 3718 CD2 LEU B 536 -12.219 -5.433 19.798 1.00 30.85 ATOM 3718 CD2 LEU B 536 -12.219 -5.433 19.798 1.00 30.85 ATOM 3720 O LEU B 536 -12.319 -3.194 22.666 1.00 30.85 ATOM 3721 N TYR B 537 -13.231 -3.194 22.676 1.00 28.96 ATOM 3721 N TYR B 537 -13.231 -3.194 22.676 1.00 28.96 ATOM 3722 CB TYR B 537 -13.231 -3.194 22.676 1.00 28.69 ATOM 3722 CB TYR B 537 -13.231 -3.194 22.676 1.00 28.69 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3724 CG CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3725 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3730 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3730 CB TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3731 CB LEU B 539 -9.567 2.99 23.461 1.00 25.70 9.00 47.39 ATOM 3730 CB TYR B 538 -1								•		1.00	36.38	
ATOM 3705 C VAL B 534 -15.752 -9.329 20.857 1.00 17.57 ATOM 3705 C VAL B 534 -15.026 -8.808 20.008 1.00 39.45 ATOM 3705 CD PRO B 535 -16.575 -8.597 21.625 1.00 39.45 ATOM 3707 CD PRO B 535 -17.529 -9.078 22.640 1.00 38.74 ATOM 3708 CA PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3708 CA PRO B 535 -17.846 -6.729 22.288 1.00 36.79 ATOM 3710 CG PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3710 CG PRO B 535 -15.338 -6.494 22.049 1.00 38.74 ATOM 3711 C PRO B 535 -15.338 -6.494 22.049 1.00 33.957 ATOM 3712 C PRO B 535 -15.338 -6.494 22.049 1.00 33.957 ATOM 3712 C PRO B 535 -14.881 -5.426 21.409 1.00 33.42 ATOM 3713 N LEU B 536 -12.829 -4.4314 20.647 1.00 29.31 ATOM 3715 CG LEU B 536 -12.829 -4.4314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.829 -5.433 19.798 1.00 30.06 ATOM 3717 CDI LEU B 536 -12.829 -5.433 19.798 1.00 30.05 ATOM 3718 CD LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3719 C LEU B 536 -11.399 -6.370 20.676 1.00 28.96 ATOM 3720 C LEU B 536 -11.399 -6.370 20.676 1.00 28.96 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 29.99 ATOM 3722 CA TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3723 CB TYR B 537 -12.62 -5.692 27.940 1.00 41.90 41.90 ATOM 3730 CB TYR B 537 -13.494 -2.032 24.505 1.00 39.46 ATOM 3730 CB TYR B 537 -12.829 -0.761 23.799 1.00 47.39 ATOM 3731 C TYR B 537 -12.829 -0.761 23.799 1.00 47.39 ATOM 3730 CB TYR B 537 -12.62 -5.692 27.940 1.00 47.39 ATOM 3730 CB TYR B 537 -12.62 -5.692 27.940 1.00 47.39 ATOM 3730 CB TYR B 537 -13.52 -6.692 27.940 1.00 47.39 ATOM 3730 CB TYR B 537 -12.62 -5.692 27.940 1.00 47.39 ATOM 3730 CB TYR B 538 -14.748 2.22 -0.761 23.799 1.00 25.18 ATOM 3730 CB TYR B 538 -14.62											34.35	
ATOM 3705 O			•					-10.910	23.463	1.00	39.34	
ATOM 3706 N PRO B 535 -16.575 -8.597 21.625 1.00 37.81 ATOM 3707 CD PRO B 535 -17.529 -9.078 22.640 1.00 36.79 ATOM 3708 CA PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3709 CB PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3710 CG PRO B 535 -17.846 -6.729 22.288 1.00 36.79 ATOM 3711 C PRO B 535 -118.004 -7.809 23.298 1.00 39.77 ATOM 3712 O PRO B 535 -14.786 -6.963 23.040 1.00 33.95 ATOM 3712 O PRO B 535 -14.786 -6.963 23.040 1.00 34.93 ATOM 3713 N LEU B 536 -14.881 -5.426 21.409 1.00 33.40 ATOM 3714 CA LEU B 536 -14.881 -5.426 21.409 1.00 33.40 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.829 -4.314 20.647 1.00 30.85 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.99 ATOM 3722 CA TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3726 CE1 TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3727 CD2 TYR B 537 -12.618 -2.071 25.750 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.618 -0.072 21.41 1.00 41.90 ATOM 3730 OH TYR B 537 -12.618 -0.072 21.41 1.00 49.93 ATOM 3730 OH TYR B 537 -12.618 -0.072 21.41 1.00 49.93 ATOM 3731 C TYR B 537 -12.618 -0.072 21.41 1.00 49.93 ATOM 3731 C TYR B 537 -12.618 -0.072 21.41 1.00 49.93 ATOM 3732 CB TYR B 537 -12.618 -0.072 21.41 1.00 49.93 ATOM 3730 OH TYR B 537 -12.618 -0.072 21.02 21.03 1.00 29.99 ATOM 3730 OH TYR B 537 -12.618 -0.072 21.02 21.00 49.93 ATOM 3731 C TYR B 537 -12.618 -0.072 21.00 20.66 ATOM 3730 OH TYR B 537 -12.62 -0.761 23.709 1.00 27.99 ATOM 3731 C TYR B 537 -12.62 -0.761 23.709 1.00 27.99 ATOM 3730 OH TYR B 537 -12.62 -0.761 23.709 1.00 27.99 ATOM 3731 C TYR B 537 -12.62 -0.761 23.709 1.00 27.99 ATOM 3734 C B ASP B 538 -11.262 -0.762 22.82 22.83 1.00 22.66 ATOM 3734 C B ASP B 538 -12.22 22.23 22.23	ATOM		C		В	534	-15.752	-9.329	20.857	1.00	37.97	
ATOM 3706 CD PRO B 535 -17.529 -9.078 22.640 1.00 38.74 ATOM 3708 CA PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3708 CB PRO B 535 -17.846 -6.729 22.288 1.00 36.79 ATOM 3710 CG PRO B 535 -18.004 -7.809 23.298 1.00 33.97 ATOM 3711 C PRO B 535 -15.338 -6.494 22.049 1.00 33.95 ATOM 3712 O PRO B 535 -14.786 -6.963 23.040 1.00 33.95 ATOM 3713 N ASP B 536 -12.299 -4.314 20.647 1.00 33.40 ATOM 3715 CB LEU B 536 -12.289 -4.314 20.647 1.00 33.40 ATOM 3716 CG LEU B 536 -12.289 -4.314 20.647 1.00 30.06 ATOM 3717 CD1 LEU B 536 -12.299 -5.433 19.798 1.00 30.06 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3710 C LEU B 536 -14.036 -3.498 22.666 1.00 30.50 ATOM 3720 O LEU B 536 -14.036 -3.498 22.666 1.00 30.50 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 29.91 ATOM 3722 C ATYR B 537 -13.231 -3.194 23.676 1.00 29.98 ATOM 3723 CB TYR B 537 -12.618 -2.032 24.505 1.00 32.50 ATOM 3724 CG TYR B 537 -12.618 -2.032 24.505 1.00 32.50 ATOM 3725 CD1 TYR B 537 -12.618 -2.032 24.505 1.00 32.50 ATOM 3726 CE1 TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3727 CD2 TYR B 537 -12.618 -2.072 25.750 1.00 32.50 ATOM 3728 CE2 TYR B 537 -12.618 -2.072 25.750 1.00 32.50 ATOM 3729 C Z TYR B 537 -12.618 -2.072 25.750 1.00 39.46 ATOM 3721 C TYR B 537 -12.618 -2.071 25.750 1.00 39.46 ATOM 3732 C CE1 TYR B 537 -12.618 -2.071 25.750 1.00 39.46 ATOM 3733 C C S TYR B 537 -12.618 -2.071 25.750 1.00 39.46 ATOM 3736 C C E1 TYR B 537 -12.618 -2.071 25.750 1.00 39.50 ATOM 3737 C C E TYR B 537 -12.618 -2.071 25.750 1.00 39.50 ATOM 3730 C E TYR B 537 -12.618 -2.071 25.750 1.00 39.66 ATOM 3731 C TYR B 537 -12.620 -2.626 27.072 1.00 49.93 ATOM 3730 C E TYR B 537 -12.620 -2.626 27.072 1.00 49.93 ATOM 3731 C TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3731 C TYR B 537 -12.262 -2.626 27.072 1.00 49.93 ATOM 3731 C TYR B 537 -12.262 -2.626 27.072 1.00 49.93 ATOM 3734 C A SP B 538 -14.656 -2.276 22.277 1.00 1.00 25.57			0		В	534	-15.026	~8.808	20.008	1.00	39.45	
ATOM 3708 CA PRO B 535 -16.608 -7.135 21.492 1.00 36.79 ATOM 3710 CB PRO B 535 -17.846 -6.729 22.288 1.00 39.77 ATOM 3711 C PRO B 535 -18.004 -7.809 23.298 1.00 39.77 ATOM 3712 O PRO B 535 -18.004 -7.809 23.298 1.00 39.77 ATOM 3712 O PRO B 535 -14.786 -6.963 23.040 1.00 33.95 ATOM 3713 N LEU B 536 -14.786 -6.963 23.040 1.00 34.93 ATOM 3713 N LEU B 536 -14.786 -6.963 23.040 1.00 33.40 ATOM 3715 CB LEU B 536 -12.219 -5.433 19.798 1.00 33.40 ATOM 3716 CG LEU B 536 -12.219 -5.433 19.798 1.00 30.85 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.349 -6.370 20.676 1.00 29.31 ATOM 3718 CD2 LEU B 536 -11.349 -6.370 20.676 1.00 29.91 ATOM 3720 O LEU B 536 -11.349 -6.370 20.676 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 29.91 ATOM 3722 CA TYR B 537 -13.494 -2.032 24.505 1.00 29.89 ATOM 3722 CB TYR B 537 -12.618 -2.071 25.750 1.00 39.46 ATOM 3723 CB TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3730 OH TYR B 537 -13.340 -5.699 27.940 1.00 47.39 ATOM 3731 C TYR B 537 -13.340 -5.699 27.940 1.00 49.93 ATOM 3732 CB TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3731 C TYR B 537 -13.340 -5.699 27.940 1.00 49.93 ATOM 3732 C TYR B 537 -13.262 -0.761 23.799 1.00 47.39 ATOM 3730 C TYR B 537 -13.262 -0.761 23.799 1.00 47.39 ATOM 3731 C TYR B 537 -13.262 -0.761 23.799 1.00 47.39 ATOM 3731 C TYR B 537 -13.262 -2.282 23.93 1.00 27.09 ATOM 3731 C TYR B 537 -12.649 -0.051 27.09 1.00 49.93 ATOM 3730 C TYR B 537 -12.649 -0.051 27.09 1.00 49.93 ATOM 3730 C TYR B 537 -12.649 -0.051 27.09 1.00 49.93 ATOM 3731 C TYR B 537 -13.962 -6.872 28.624 1.00 53.90 ATOM 3730 C TYR B 537 -13.664 -0.757 22.729 1.00 47.39 ATOM 3731 C TYR B 538 -14.748 2.598 24.614 1.00 25.27 ATOM 3734 C B EU B 539 -9.862 -0.757 22.729 1.00 47.39 ATOM 3735 C B ASP B 538 -14.636 -0.757 22.729 1.0	ATOM	3706			В	535	-16.575	-8.597	21.625	1.00	37.81	
ATOM 3710 CG PRO B 535 -17.846 -6.729 22.288 1.00 36.98 ATOM 3711 C PRO B 535 -18.004 -7.809 23.298 1.00 33.95 ATOM 3711 C PRO B 535 -15.338 -6.494 22.049 1.00 33.95 ATOM 3712 O PRO B 535 -14.881 -5.426 21.409 1.00 33.95 ATOM 3713 N ASP B 536 -118.801 -5.426 21.409 1.00 33.42 ATOM 3715 CB TYR B 537 -12.849 -3.327 26.543 1.00 30.06 ATOM 3715 CB TYR B 537 -12.849 -3.327 26.543 1.00 30.06 ATOM 3715 CB TYR B 537 -12.849 -3.327 26.543 1.00 30.06 ATOM 3716 CD TYR B 537 -12.849 -3.327 26.543 1.00 30.06 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3710 CD1 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3720 O LEU B 536 -11.349 -2.829 22.383 1.00 39.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CB TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CB TYR B 537 -12.618 -2.032 24.505 1.00 32.50 ATOM 3722 CB TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3730 OH TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3730 OH TYR B 537 -12.518 -0.0757 22.707 1.00 49.93 ATOM 3731 C TYR B 537 -13.292 -3.431 27.421 1.00 47.39 ATOM 3731 C TYR B 537 -13.292 -3.431 27.421 1.00 47.39 ATOM 3731 C TYR B 537 -12.518 -0.757 22.729 1.00 49.33 ATOM 3731 C TYR B 537 -12.222 -4.435 26.543 1.00 39.46 ATOM 3731 C TYR B 537 -12.222 -4.435 26.543 1.00 39.46 ATOM 3731 C TYR B 537 -13.262 -0.662 27.707 1.00 49.93 ATOM 3731 C TYR B 537 -12.218 -0.757 22.729 1.00 49.93 ATOM 3731 C TYR B 537 -12.218 -0.757 22.729 1.00 49.93 ATOM 3731 C TYR B 538 -12.22 -12.22 -12.22 -12.22 -12.22 -12.22 -12.22 -12.22 -12.22 -12.	MOTA	3707	CD	PRO	B	535	-17.529	-9.078	22.640	1.00	38.74	
ATOM	ATOM	3708		PRO	В	535	-16.608	-7.135	21.492	1.00	36.79	
ATOM 3711 C PRO B 535 -15.338 -6.494 22.049 1.00 33.95 ATOM 3712 O PRO B 535 -14.786 -6.953 23.040 1.00 33.42 33.40 ATOM 3713 N LEU B 536 -14.881 -5.426 21.409 1.00 33.42 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3717 CD1 LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.06 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.05 ATOM 3719 C LEU B 536 -14.036 -3.498 22.666 1.00 20.96 ATOM 3720 O LEU B 536 -15.024 -2.829 22.838 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 29.91 ATOM 3722 CA TYR B 537 -13.494 -2.032 24.505 1.00 29.89 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 23.50 ATOM 3725 CD1 TYR B 537 -12.618 -2.071 25.750 1.00 23.50 ATOM 3726 CE1 TYR B 537 -12.269 -3.431 27.421 1.00 41.90 ATOM 3726 CE1 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3727 CD2 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3727 CD2 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3730 CR TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3731 CR TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3730 CR TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3730 CR TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3730 CR TYR B 537 -13.362 -6.872 28.624 1.00 53.90 ATOM 3730 CR TYR B 537 -13.362 -6.872 28.624 1.00 53.90 ATOM 3731 CR TYR B 537 -13.362 -6.872 28.624 1.00 26.15 ATOM		3709	CB	PRO	В	535	-17.846	-6.729	22,288	1.00	36.98	
ATOM 3713 N LEU B 536 -14.881 -5.426 21.409 1.00 34.93 ATOM 3714 CA LEU B 536 -14.881 -5.426 21.409 1.00 33.40 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 23.40 ATOM 3716 CG LEU B 536 -12.829 -4.314 20.647 1.00 30.06 ATOM 3717 CD1 LEU B 536 -12.829 -4.314 20.647 1.00 30.06 ATOM 3718 CD2 LEU B 536 -12.219 -5.433 19.798 1.00 30.06 ATOM 3718 CD2 LEU B 536 -11.394 -4.822 18.714 1.00 30.05 ATOM 3718 CD LEU B 536 -11.394 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -14.036 -3.498 22.666 1.00 28.96 ATOM 3720 C LEU B 536 -15.024 -2.829 22.383 1.00 28.99 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -12.618 -2.071 25.750 1.00 28.89 ATOM 3723 CB TYR B 537 -12.849 -2.332 72.6543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.2618 -2.071 25.750 1.00 39.46 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.2618 -2.071 25.750 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.262 -4.435 26.379 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3730 ON TYR B 537 -12.265 -5.620 27.072 1.00 49.93 ATOM 3731 C TYR B 537 -12.262 -6.872 28.624 1.00 49.93 ATOM 3732 ON TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3730 ON TYR B 537 -12.262 -5.620 27.072 1.00 69.93 ATOM 3730 ON TYR B 537 -12.262 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -12.262 -6.822 28.91 ATOM 3732 ON TYR B 537 -12.262 -5.620 27.072 1.00 65.15 ATOM 3733 N ASP B 538 -13.360 -6.872 28.524 1.00 27.09 ATOM 3734 CA ASP B 538 -13.360 -6.872 28.524 1.00 28.85 ATOM 3735 CB ASP B 538 -13.360 -6.872 28.524 1.00 38.26 ATOM 3736 CC ASP B 538 -16.562 1.070 22.289 1.00 26.15 ATOM 3737 OD1 ASP B 538 -16.562 1.070 22.289 1.00 38.26 ATOM 3737 OD1 ASP B 538 -16.632 2.291 23.246 1.00 28.85 ATOM 3736 CC ASP B 538 -16.632 2.291 23.246 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.632 2.291 23.246 1.00 28.65 ATOM 3737 OD1 ASP B 538 -16.632 2.291 23.246 1.00 28.66 ATOM 3740 C ASP B 538 -16.637 2.291 23.261 1.00 10.0165 ATOM 3740 C LEU B 539 -8.667 2.291 23.249 1.00 16.63 ATOM 3740 C LEU B 539 -9.484 2.227 23.261 1		3710		PRO	В	535	-18.004	-7.809	23.298	1.00	39.77	
ATOM 3713 N LEU B 536 -14.881 -5.426 21.409 1.00 33.42 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.829 -4.314 20.647 1.00 30.06 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.06 ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -15.024 -2.829 22.383 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -13.994 -2.032 24.505 1.00 39.46 ATOM 3726 CE1 TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3728 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3726 CE2 TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3728 CE2 TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3729 CZ TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3729 CZ TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3729 CZ TYR B 537 -13.923 -3.431 27.421 1.00 49.93 ATOM 3730 OH TYR B 537 -12.262 -4.432 26.379 1.00 49.93 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3733 N ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3734 CA ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3735 CB ASP B 538 -14.748 2.558 23.461 1.00 32.68 ATOM 3736 CG ASP B 538 -14.748 2.558 23.469 1.00 32.68 ATOM 3737 OU ASP B 538 -14.6562 1.707 22.882 1.00 38.26 ATOM 3737 OU ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CC ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD LEU B 539 -8.561 4.892 24.898 1.00 16.46 ATOM 3740 C BEU B 539 -9.484 2.122 2.217 23.261 1.00 26.12 ATOM 3740 C BEU B 539 -9.567 2.991 25.469 1.00 16.46 ATOM 3740 C BEU B 539 -9.484 2.122	MOTA	3711		PRO	В	535	-15.338	-6.494	22.049	1.00	33.95	
ATOM 3714 CA LEU B 536 -13.675 -4.732 21.851 1.00 33.40 ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.219 -5.433 19.798 1.00 30.06 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.85 ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -15.024 -2.829 22.383 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.231 -3.194 23.676 1.00 29.89 ATOM 3723 CB TYR B 537 -12.849 -2.032 24.505 1.00 29.89 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3727 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 41.90 ATOM 3728 CE2 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3733 N ASP B 538 -13.830 1.599 27.940 1.00 46.80 ATOM 3733 C ASP B 538 -13.830 1.599 23.461 1.00 26.12 ATOM 3733 C ASP B 538 -13.830 1.599 23.461 1.00 26.12 ATOM 3734 CA ASP B 538 -13.262 -0.761 23.709 1.00 26.15 ATOM 3735 CB ASP B 538 -13.830 1.599 23.461 1.00 25.27 ATOM 3736 CG ASP B 538 -13.830 1.599 23.461 1.00 26.12 ATOM 3737 OD1 ASP B 538 -13.262 -0.761 23.709 1.00 26.15 ATOM 3738 CB ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3731 C B LEU B 539 -9.484 2.127 23.261 1.00 25.18 ATOM 3734 C B LEU B 539 -9.484 2.127 23.261 1.00 25.18 ATOM 3737 OD1 ASP B 538 -12.477 22.2729 1.00 26.41 ATOM 3734 C B LEU B 539 -9.667 22.262 22.147 1.00 26.41 ATOM 3737 OD1 ASP B 538 -12.477 22.229 24.838 1.00 15.57 ATOM 3738 C C ASP B 538 -12.477 22.229 24.838 1.00 15.57 ATOM 3737 OD1 ASP B 539 -9.667 29.91 25.496 1.00 15.65 ATOM 3738 C C LEU B 539 -9.667 29.91 25.496 1.00 15.57 ATOM 3740 C LEU B 539 -9.686 22.716 22.249 1	MOTA	3712	0	PRO	B	535	-14.786	-6.963	23.040	1.00	34.93	
ATOM 3715 CB LEU B 536 -12.829 -4.314 20.647 1.00 29.31 ATOM 3716 CG LEU B 536 -12.219 -5.433 19.798 1.00 30.06 ATOM 3717 CD1 LEU B 536 -11.344 -4.822 18.714 1.00 30.085 ATOM 3718 CD2 LEU B 536 -11.344 -4.822 18.714 1.00 30.05 ATOM 3719 C LEU B 536 -11.344 -4.822 18.714 1.00 30.05 ATOM 3719 C LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3720 O LEU B 536 -14.036 -3.498 22.666 1.00 28.96 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3721 CB TYR B 537 -12.618 -2.071 25.750 1.00 29.89 ATOM 3722 CG TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD2 TYR B 537 -12.849 -3.327 26.543 1.00 41.90 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 45.72 ATOM 3726 CE1 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3727 CD2 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3730 OH TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3732 O TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3733 N ASP B 538 -13.360 -5.692 27.940 1.00 48.80 ATOM 3731 C TYR B 537 -12.618 -0.757 22.729 1.00 26.15 ATOM 3733 C A ASP B 538 -13.3630 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 26.12 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 26.12 ATOM 3737 OD1 ASP B 538 -12.652 1.707 22.882 1.00 33.90 ATOM 3738 C C ASP B 538 -14.748 2.598 24.164 1.00 26.12 ATOM 3739 C C ASP B 538 -12.652 1.707 22.882 1.00 38.26 ATOM 3730 CB EU B 539 -10.512 2.211 2.212 2.222 4.333 1.00 20.76 ATOM 3731 C B EU B 539 -10.312 2.911 24.150 1.00 15.67 ATOM 3734 C B EU B 539 -10.312 2.911 24.150 1.00 15.67 ATOM 3736 C ASP B 538 -12.474 2.217 23.261 1.00 25.18 ATOM 3737 C B S S S S S S S S S S S S S S S S S S	MOTA	3713	N	LEU	В	536	-14.881	-5.426	21.409	1.00	33.42	
ATOM	MOTA	3714	CA	LEU	В	536	-13.675	-4.732	21.851	1.00	33,40	
ATOM	MOTA	3715	CB	LEU	В	536	-12.829	-4.314	20.647	1.00	29.31	
ATOM 3718 CD2 LEU B 536 -11.398 -6.370 20.676 1.00 28.96 ATOM 3719 C LEU B 536 -14.036 -3.498 22.666 1.00 30.50 ATOM 3720 O LEU B 536 -15.024 -2.829 22.383 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.241 -3.194 23.676 1.00 29.89 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.755 1.00 32.50 ATOM 3724 CG TYR B 537 -12.618 -2.071 25.755 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -4.435 26.379 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 49.93 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3733 C TYR B 538 -13.809 0.315 24.141 1.00 26.15 ATOM 3733 CA ASP B 538 -14.748 2.598 24.164 1.00 26.15 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 25.27 ATOM 3736 CG ASP B 538 -16.227 2.285 24.164 1.00 23.85 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 33.90 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 33.90 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 CB LEU B 539 -9.567 2.991 25.496 1.00 15.57 ATOM 3740 CB LEU B 539 -9.567 2.991 25.496 1.00 15.57 ATOM 3741 CB LEU B 539 -9.484 2.127 23.127 1.00 16.38 ATOM 3745 CB LEU B 539 -9.484 2.127 23.127 1.00 16.38 ATOM 3746 CB LEU B 539 -9.487 0.803 23.239 1.00 16.23 ATOM 3747 CB LEU B 540 -9.487 0.803 23.239 1.00 16.23 ATOM 3748 CB LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 CB LEU B 539 -9.487 0.803 23.239 1.00 16.23 ATOM 3745 CB LEU B 540 -9.487 0.803 23.239 1.00 16.23 ATOM 3755 CB LEU B 540 -9.487 0.803 23.239 1.00 16.23 ATOM 3755 CB LEU B 540 -9.487 0.583 23.237 1.00 19.27	MOTA	3716	CG	LEU	В	536	-12.219	-5,433	19,798	1.00	30.06	
ATOM 3719 C LEU B 536 -14.036 -3.498 22.666 1.00 30.50 ATOM 3720 O LEU B 536 -15.024 -2.829 22.387	ATOM	3717	CD1	LEU	В	536	-11.344	-4.822	18.714	1.00	30.85	
ATOM 3720 O LEU B 536 -15.024 -2.829 22.383 1.00 29.91 ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.231 -3.194 23.676 1.00 29.89 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 41.90 ATOM 3726 CE1 TYR B 537 -12.849 -3.327 26.543 1.00 41.90 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3729 CZ TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.262 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 26.15 ATOM 3734 CA ASP B 538 -13.830 1.598 24.164 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 25.27 ATOM 3736 CG ASP B 538 -16.562 1.707 22.882 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 33.90 ATOM 3737 OD2 ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3736 CG ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3737 CD ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3740 C ASP B 539 -9.567 2.991 25.496 1.00 15.57 ATOM 3741 N LEU B 539 -9.567 2.991 25.496 1.00 15.57 ATOM 3743 CB LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3748 CD LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3749 N LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3749 N LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3750 CA LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3751 CB LEU B 539 -9.8862 2.716 22.249 1.00 16.55 ATOM 3753 CD LEU B 540 -9.487 0.803 23.229 1.00 18.03 ATOM 375	MOTA	3718	CD2	LEU	В	536	-11.398	-6.370	20.676	1.00	28.96	
ATOM 3721 N TYR B 537 -13.231 -3.194 23.676 1.00 28.69 ATOM 3722 CA TYR B 537 -13.494 -2.032 24.505 1.00 29.89 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3726 CE1 TYR B 537 -13.923 -3.431 27.421 1.00 47.39 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -4.435 26.379 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3728 CE2 TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3732 C TYR B 537 -13.582 -0.761 23.709 1.00 27.09 ATOM 3733 N ASP B 538 -13.809 0.315 24.141 1.00 26.12 ATOM 3734 CA ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.527 2.285 23.940 1.00 33.90 ATOM 3738 OD2 ASP B 538 -16.527 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.527 2.285 23.940 1.00 33.90 ATOM 3738 C ASP B 538 -16.527 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.527 2.285 23.940 1.00 25.27 ATOM 3738 C B SP B 538 -16.527 2.285 23.940 1.00 25.18 ATOM 3737 OD1 ASP B 538 -16.527 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.527 2.285 23.940 1.00 33.68 ATOM 3740 C ASP B 538 -16.527 2.285 23.940 1.00 33.68 ATOM 3741 N LEU B 539 -10.312 2.911 24.141 0.00 26.41 ATOM 3742 CB LEU B 539 -10.312 2.911 24.145 0.00 15.65 ATOM 3744 CB LEU B 539 -10.312 2.911 24.483 1.00 20.76 ATOM 3745 CD1 LEU B 539 -8.651 4.892 24.883 1.00 16.43 ATOM 3746 CD2 LEU B 539 -8.651 4.892 24.883 1.00 16.43 ATOM 3747 C LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 CB LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -9.667 2.991 25.496 1.00 16.43 ATOM 3740 CB LEU B 540 -8.487 -9.487 0.803 23.239 1.00 18.23 ATOM 3755 CB LEU B 540 -8.487 3.3952 22.327 1.00 18.05 ATOM 3754 CB LEU B 540 -8.487 3.3952 22.327 1.0	ATOM	3719	С	LEU	В	536	-14.036	-3.498	22.666	1.00	30.50	
ATOM 3722 CA TYR B 537 -13.494 -2.032 24.505 1.00 29.89 ATOM 3723 CB TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3724 CG TYR B 537 -12.618 -2.071 25.750 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -14.174 -4.609 28.118 1.00 41.90 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3728 CE2 TYR B 537 -13.940 -5.699 27.940 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -12.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 538 -13.882 -0.757 22.729 1.00 26.15 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 26.12 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3730 CB ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -12.120 2.626 22.147 1.00 25.18 ATOM 3740 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 C ASP B 539 -9.567 2.991 25.496 1.00 16.46 ATOM 3740 C ASP B 539 -9.567 2.991 25.496 1.00 16.46 ATOM 3740 C ASP B 539 -9.567 2.991 25.496 1.00 16.46 ATOM 3740 C ASP B 539 -9.567 2.991 25.496 1.00 16.57 ATOM 3740 C	ATOM	3720	0	LEU	В	536	-15.024	-2.829	22.383	1.00	29.91	
ATOM 3724 CG TYR B 537 -12.618 -2.071 25.750 1.00 32.50 ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -4.435 26.379 1.00 49.93 ATOM 3728 CE2 TYR B 537 -12.626 -5.620 27.072 1.00 49.93 ATOM 3730 OH TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3733 N ASP B 538 -13.830 1.598 23.461 1.00 26.15 ATOM 3733 N ASP B 538 -13.830 1.598 23.461 1.00 26.12 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 26.12 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 23.68 ATOM 3737 OD1 ASP B 538 -16.522 7 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3736 CG ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 O ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3743 CB LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3746 CD2 LEU B 539 -9.567 2.991 25.496 1.00 16.46 ATOM 3746 CD2 LEU B 539 -8.862 2.716 22.249 1.00 16.57 ATOM 3748 CD LEU B 539 -7.564 3.569 26.895 1.00 16.46 ATOM 3748 CD LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3749 N LEU B 539 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 539 -9.8862 2.716 22.2249 1.00 16.75 ATOM 3748 CD LEU B 539 -9.8862 2.716 22.2249 1.00 16.75 ATOM 3748 CD LEU B 539 -9.8862 2.716 22.2249 1.00 16.75 ATOM 3748 CD LEU B 539 -9.8862 2.716 22.2249 1.00 16.75 ATOM 3748 CD LEU B 539 -9.8862 2.716 22.2249 1.00 16.75 ATOM 3753 CD LEU B 540 -9.487 0.803 23.239 1.00	MOTA	3721	N	TYR	В	537	-13.231	-3.194	23.676	1.00	28.69	
ATOM 3724 CG TYR B 537 -12.849 -3.327 26.543 1.00 39.46 ATOM 3725 CD1 TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -5.620 27.072 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OR TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3732 O TYR B 537 -12.258 -0.761 23.709 1.00 27.09 ATOM 3733 C TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 25.27 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 32.68 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3740 O ASP B 538 -12.407 22.217 23.261 1.00 25.18 ATOM 3741 N LEU B 539 -10.312 2.911 24.150 1.00 25.18 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3746 CD2 LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3746 CD2 LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3747 C LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3748 C DD LEU B 539 -9.484 2.127 23.261 1.00 20.36 ATOM 3749 N LEU B 539 -9.484 2.127 23.261 1.00 16.45 ATOM 3749 N LEU B 539 -9.484 2.127 2.2249 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 2.2249 1.00 16.57 ATOM 3749 N LEU B 539 -9.484 2.127 2.2249 1.00 16.75 ATOM 3752 CG LEU B 540 -8.487 -0.803 23.239 1.00 18.23 ATOM 3752 CG LEU B 540 -8.487 -0.048 22.319 1.00 16.38 ATOM 3752 CG LEU B 540 -8.487 -0.048 22.319 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.487 -0.048 22.319 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.487 -0.048 22.327 1.00 16.38 ATOM 3755 CB LEU B 540 -8.487 -0.2554 21.821 1.00 19.81	ATOM	3722	CA	TYR	В	537	-13.494	-2.032	24.505	1.00	29.89	
ATOM 3725 CD1 TYR B 537 -13.923 -3.431 27.421 1.00 41.90 ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1.00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.022 -5.620 27.072 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.582 -6.8772 8.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 538 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.830 1.598 23.461 1.00 26.12 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 33.90 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3741 N LEU B 539 -10.312 2.911 24.150 1.00 25.18 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3746 CD2 LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3748 CD2 LEU B 539 -9.484 2.127 2.229 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 2.229 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 2.229 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 2.229 1.00 16.75 ATOM 3751 CB LEU B 539 -9.484 2.127 2.229 1.00 16.75 ATOM 3752 CG LEU B 539 -9.484 2.127 2.229 1.00 18.23 ATOM 3753 CD1 LEU B 539 -9.486 2.716 22.249 1.00 20.36 ATOM 3751 CB LEU B 539 -9.484 2.127 2.229 1.00 18.23 ATOM 3752 CG LEU B 539 -9.486 2.716 22.249 1.00 16.75 ATOM 3753 CD1 LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3753 CD1 LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3753 CD1 LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3753 CD1 LEU B 540 -8.679 -1.528 22.701 1.00 16.38 ATOM 3753 CD1 LEU B 540 -8.679 -1.528 22.701 1.00 16.38 ATOM 3753 CD1 LEU B 540 -8.679 -1.528 22.701 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.679 -2.303 21.828 1.00 19.27 AT	MOTA	3723	CB	TYR	B	537	-12.618	-2.071	25.750	1.00	32.50	
ATOM 3726 CE1 TYR B 537 -14.174 -4.609 28.118 1,00 45.72 ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3733 N ASP B 538 -12.1261 -0.757 22.729 1.00 26.15 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.522 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3738 OD2 ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3737 OD ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3734 CA LEU B 539 -10.312 2.911 24.150 1.00 26.41 ATOM 3740 O ASP B 538 -12.120 2.626 22.147 1.00 26.41 ATOM 3741 N LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3745 CD1 LEU B 539 -8.166 3.51 25.469 1.00 17.48 ATOM 3746 CD2 LEU B 539 -8.166 3.511 25.469 1.00 17.48 ATOM 3747 C LEU B 539 -8.166 3.511 25.469 1.00 16.46 ATOM 3748 CD LEU B 539 -9.564 3.569 26.895 1.00 15.57 ATOM 3747 C LEU B 539 -9.484 2.127 23.127 1.00 16.45 ATOM 3748 CD LEU B 539 -9.484 2.127 23.127 1.00 16.45 ATOM 3749 N LEU B 539 -9.487 2.224 2.249 1.00 20.36 ATOM 3749 N LEU B 540 -9.487 0.803 23.239 1.00 16.23 ATOM 3749 N LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CD LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3752 CG LEU B 540 -8.909 -1.528 22.701 1.00 19.67 ATOM 3753 CD LEU B 540 -8.909 -1.528 22.701 1.00 19.27 ATOM 3754 CD LEU B 540 -8.699 -1.528 22.701 1.00 19.27 ATOM 3755 CD LEU B 540 -8.673 -3.3952 22.327 1.00 18.00	ATOM	3724	CG	TYR	В	537	-12.849	-3.327	26.543	1.00	39.46	
ATOM 3727 CD2 TYR B 537 -12.022 -4.435 26.379 1.00 47.39 ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.340 -5.699 27.940 1.00 53.90 ATOM 3731 C TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3735 CB ASP B 538 -13.909 0.315 24.141 1.00 25.27 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 25.27 ATOM 37376 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -17.052 2.613 24.819 1.00 32.68 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -11.637 2.991 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 19.65 ATOM 3746 CD2 LEU B 539 -8.116 3.511 25.469 1.00 16.43 ATOM 3746 CD2 LEU B 539 -9.567 2.991 25.496 1.00 16.43 ATOM 3746 CD2 LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3747 C LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3748 O LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3749 N LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3749 N LEU B 540 -8.793 -9.487 2.227 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.487 2.227 23.127 1.00 16.38 ATOM 3750 CA LEU B 540 -8.909 -1.528 22.701 1.00 19.81 ATOM 3751 CB LEU B 540 -8.909 -1.528 22.701 1.00 19.81 ATOM 3752 CG LEU B 540 -8.669 -2.303 21.828 1.00 19.27 ATOM 3753 CD1 LEU B 540 -8.909 -1.528 22.701 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.673 -2.2303 21.828 1.00 19.27 ATOM 3753 CD1 LEU B 540 -8.669 -2.2303 21.828 1.00 19.27 ATOM 3754 CD2 LEU B 540 -8.673 -3.952 22.3327 1.00 18.00 19.50 ATOM 3755 CD LEU B 540 -8.669 -2.2303 21.828 1.00 19.27 AT	ATOM	3725	CD1	TYR	B	537	-13.923	-3.431	27.421	1.00	41.90	
ATOM 3728 CE2 TYR B 537 -12.262 -5.620 27.072 1.00 49.93 ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.8909 0.315 24.141 1.00 26.12 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3741 N LEU B 539 -11.637 2.912 24.150 1.00 19.65 ATOM 3742 CA LEU B 539 -10.312 2.912 24.150 1.00 19.65 ATOM 3743 CB LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3744 CG LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3746 CD1 LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3747 C LEU B 539 -8.651 4.892 24.838 1.00 16.43 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -8.743 -0.803 23.239 1.00 18.23 ATOM 3752 CG LEU B 540 -8.743 -0.803 23.239 1.00 18.23 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3751 CB LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3752 CG LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.803 23.237 1.00 18.05 ATOM 3753 CD1 LEU B 540 -6.679 -2.303 21.828 1.00 19.27 ATOM 3753 CD1 LEU B 540 -6.679 -2.303 21.828 1.00 19.27	MOTA	3726		TYR	В	537	-14.174	-4.609	28.118	1,00	45.72	
ATOM 3729 CZ TYR B 537 -13.340 -5.699 27.940 1.00 48.80 ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -12.518 -0.757 22.729 1.00 26.12 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -9.567 2.991 25.496 1.00 19.65 ATOM 3744 CG LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3746 CD2 LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3747 C LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3747 C LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3750 CA LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3751 CB LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3752 CG LEU B 540 -8.8909 -1.528 22.701 1.00 18.05 ATOM 3753 CD LEU B 540 -8.473 -3.552 22.237 1.00 18.00 ATOM 3754 CD2 LEU B 540 -6.679 -2.303 21.828 1.00 19.27 ATOM 3754 CD2 LEU B 540 -6.679 -2.303 21.828 1.00 19.27 ATOM 3755 CD LEU B 540 -6.679 -2.303 21.828 1.00 19.27	ATOM		CD2		В	537	-12.022	-4.435	26.379	1.00	47.39	
ATOM 3730 OH TYR B 537 -13.582 -6.872 28.624 1.00 53.90 ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3735 CB ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.522 1.707 22.882 1.00 38.26 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.120 2.626 22.147 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3746 CD1 LEU B 539 -8.511 4.892 24.838 1.00 16.43 ATOM 3746 CD2 LEU B 539 -8.511 4.892 24.838 1.00 16.43 ATOM 3748 O LEU B 539 -7.564 3.569 26.895 1.00 15.57 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3745 CD LEU B 539 -9.484 2.127 23.127 1.00 16.43 ATOM 3750 CA LEU B 539 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3752 CG LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3753 CD LEU B 540 -8.743 -0.048 22.319 1.00 19.27 ATOM 3753 CD LEU B 540 -8.743 -0.048 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22.327 1.00 18.00 19.27 ATOM 3755 CC LEU B 540 -8.473 -3.952 22	MOTA		CE2		В	537	-12.262	-5.620	27.072	1.00	49.93	
ATOM 3731 C TYR B 537 -13.262 -0.761 23.709 1.00 27.09 ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 25.12 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 32.68 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3744 CG LEU B 539 -8.516 3.511 25.469 1.00 16.46 ATOM 3747 C LEU B 539 -8.516 3.511 25.469 1.00 16.46 ATOM 3748 O LEU B 539 -8.501 4.892 24.838 1.00 16.43 ATOM 3747 C LEU B 539 -9.861 4.892 24.838 1.00 16.43 ATOM 3748 O LEU B 539 -8.801 4.892 24.838 1.00 16.43 ATOM 3749 N LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -8.487 -0.048 22.319 1.00 18.05 ATOM 3751 CB LEU B 540 -8.487 -0.048 22.319 1.00 18.05 ATOM 3752 CG LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3753 CD1 LEU B 540 -8.743 -0.048 22.319 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3755 CD LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3755 CD LEU B 540 -8.487 -2.554 21.821 1.00 19.81 ATOM 3755 CD LEU B 540 -8.487 -3.952 22.327 1.00 18.00 ATOM 3755 CD LEU B 540 -8.487 -3.952 22.327 1.00 18.00 ATOM 3755 CD LEU B 540 -8.487 -3.952 22.327 1.00 18.00 ATOM 3755 CD LEU B 540 -8.487 -3.952 22.327 1.00 18.00 ATOM 3755 CD LEU B 540 -8.487 -9.241 0.1669 20.891 1.00 21.50					В		-13.340			1.00	48.80	
ATOM 3732 O TYR B 537 -12.518 -0.757 22.729 1.00 26.15 ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3737 OD1 ASP B 538 -16.227 2.285 23.940 1.00 32.68 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 32.68 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.120 2.626 22.147 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3744 CG LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3746 CD2 LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3747 C LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3750 CA LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3751 CB LEU B 540 -8.909 -1.528 22.701 1.00 19.61 ATOM 3752 CG LEU B 540 -8.909 -1.528 22.701 1.00 19.31 ATOM 3753 CD1 LEU B 540 -8.909 -1.528 22.701 1.00 19.27 ATOM 3754 CD2 LEU B 540 -8.188 -2.554 21.821 1.00 19.27 ATOM 3755 C LEU B 540 -8.473 -3.952 22.327 1.00 18.00										1.00	53.90	
ATOM 3733 N ASP B 538 -13.909 0.315 24.141 1.00 26.12 ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -17.052 2.613 24.819 1.00 32.68 ATOM 3738 OD2 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.120 2.626 22.147 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3743 CB LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3744 CG LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3745 CD1 LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3747 C LEU B 539 -7.564 3.569 26.895 1.00 15.57 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3748 O LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3750 CA LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3751 CB LEU B 540 -8.909 -1.528 22.701 1.00 16.38 ATOM 3753 CD1 LEU B 540 -8.909 -1.528 22.701 1.00 19.81 ATOM 3753 CD1 LEU B 540 -6.679 -2.303 21.828 1.00 19.27 ATOM 3754 CD2 LEU B 540 -6.679 -2.303 21.828 1.00 19.27 ATOM 3755 C LEU B 540 -6.679 -2.303 21.828 1.00 19.27										1.00		
ATOM 3734 CA ASP B 538 -13.830 1.598 23.461 1.00 25.27 ATOM 3735 CB ASP B 538 -14.748 2.598 24.164 1.00 28.85 ATOM 3736 CG ASP B 538 -16.227 2.285 23.940 1.00 33.90 ATOM 3737 OD1 ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -16.562 1.707 22.882 1.00 38.26 ATOM 3739 C ASP B 538 -12.447 2.217 23.261 1.00 25.18 ATOM 3740 O ASP B 538 -12.447 2.217 23.261 1.00 26.41 ATOM 3741 N LEU B 539 -11.637 2.309 24.313 1.00 20.76 ATOM 3742 CA LEU B 539 -10.312 2.911 24.150 1.00 19.65 ATOM 3743 CB LEU B 539 -9.567 2.991 25.496 1.00 17.48 ATOM 3744 CG LEU B 539 -8.116 3.511 25.469 1.00 16.46 ATOM 3745 CD1 LEU B 539 -8.051 4.892 24.838 1.00 16.43 ATOM 3746 CD2 LEU B 539 -7.564 3.569 26.895 1.00 16.75 ATOM 3748 O LEU B 539 -9.484 2.127 23.127 1.00 16.75 ATOM 3749 N LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3740 CA LEU B 539 -8.862 2.716 22.249 1.00 20.36 ATOM 3740 CB LEU B 540 -9.487 0.803 23.239 1.00 18.23 ATOM 3750 CA LEU B 540 -8.743 -0.048 22.319 1.00 18.05 ATOM 3751 CB LEU B 540 -8.999 -1.528 22.701 1.00 16.38 ATOM 3753 CD1 LEU B 540 -8.188 -2.554 21.821 1.00 19.81 ATOM 3753 CD1 LEU B 540 -8.188 -2.554 21.821 1.00 19.81 ATOM 3754 CD2 LEU B 540 -8.188 -2.554 21.821 1.00 19.81 ATOM 3755 C LEU B 540 -8.473 -3.952 22.327 1.00 18.00												
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ALUM 3/56 0 LEU B 540 -8.449 0.293 19.964 1.00 20.41												
	ATOM	3756	Ü	TEO	в.	540	-8.449	0.293	19.964	1.00	20.41	

MOTA	3757	N	LEU	В	541	-10.559	0.206 20.726	1.00	22.40
atom	3758	CA	Leu	B	541	-11.164	0.419 19.413	1.00	23,27
ATOM	3759	CB	LEU	В	541	-12.686	0.429 19.527	1.00	25.12
ATOM	3760	CG	LEU	В	541	-13.410	-0.808 18.999	1.00	36.53
ATOM	3761	CD1	LEU	В	541	-14.910	-0.671 19,273	1.00	30.98
atom	3762	CD2	LEU	В	541	-13.136	-0.971 17.508	1.00	31.93
ATOM	3763	Ç	LEU	B	541	-10.697	1.751 18.842	1.00	22.46
ATOM	3764	0	LEU	₿	541	-10.359	1.845 17.666	1,00	26.29
ATOM	3765	N	GLU	В	542	-10.694	2.781 19.680	1.00	23.96
ATOM	3766	CA	GLU	В	542	-10.248	4.106 19,270	1.00	26,91
ATOM	3767	CB	GLU	В	542	-10.250	5.050 20.468	1.00	30.84
ATOM	3768	CĢ	GLU	В	542	-11.166	6.245 20.347	1.00	37.20
ATOM	3769	CD	GLU	В	542	-11.138	7.105 21.597	1.00	39.98
MOTA	3770	OE1	GLU	В	542	-12.223	7.385 22.144		39.92
ATOM	3771	OE2	GLŲ	B	542	-10.028	7.494 22.034	1.00	38.96
ATOM	3772	C	GLU	B	542	-8.826	4.010 18.724		27.90
ATOM	3773	0	GLU	В	542	-8.530	4.492 17.634	1.00	29.32
ATOM	3774	N	MET	В	543	-7.945	3.388 19.499		26.41
ATOM	3775	CA	MET	B	543	-6.552	3.237 19,107		23.53
ATOM	3776	CB	MET	В	543	-5.749	2.591 20.247		24.60
ATOM	3 <i>777</i>	CG	MET	В	543	-5.812	3.338 21.579		26.46
ATOM	3778	SD	MET	В	543	-5,373	5.084 21.467		29.45
ATOM	3779	CE	MET	В	543	-3.585	4.971 21.349		25.43
ATOM	3780	С	MET	В	543	-6.403	2.407 17.832	1.00	25.80
ATOM	3781	0	MET	В	543	-5.535	2.686 17.004	1.00	23.59
ATOM	3782	N	LEU	В	544	-7.254	1.394 17.673	1.00	27.74
ATOM	3783	CA	LEU	В	544	-7.202	0.522 16.499	1.00	26.32
ATOM	3784	CB	LEU	В	544	-8.069	-0.721 16.719	1.60	26.75
ATOM	3785	ÇG	LEU	В	544	-8.274	-1.632 15.502	1.00	28.12
ATOM	3786	CD1	LEU	В	544	-6.956	-2.294 15.136	1.00	26.36
ATOM	3787	CD2	LEU	В	544	-9.330	-2.680 15.803	1.00	27.00
ATOM	3788	C	LEU	В	544	-7.672	1,252 15.250	1.00	26,97
ATOM	3789	0	LEU	В	544	-7.036	1.181 14.195	1.00	24,25
ATOM	3790	N	ASP	В	545	-8.787	1.961 15.372	1.00	30.37
ATOM	3791	CA	ASP	В	545	-9.338	2.702 14.244	1.00	32.34
ATOM	3792	CB	ASP	B	545	-10.668	3.346 14.637	1.00	36.61
MOTA	3793	CG	ASP	В	545	-11.818	2.370 14.565	1.00	42.73
MOTA	3794	OD1	ASP	B	545	-12.858	2.624 15.211	1.00	47,39
MOTA	3795	OD2	ASP	В	545	-11.676	1,342 13.863	1.00	46.96
MOTA	3796	C	ASP	B	545	-8.382	3.762 13.711	1.00	31.27
ATOM	3797	0	ASP	В	545	-8.443	4.120 12.532	1.00	30.53
AŢOM	3798	N	ALA	В	546	-7.506	4.272 14.572	1.00	29.02
MOTA	3799	CA	ALA	В	546	-6.543	5.280 14.141	1.00	31.21
ATOM	3800	CB	ALA	B	546	-5.646	5.693 15.306	1.00	30.98
ATOM	3801	C	ALA	В	546	-5.697	4.731 12.996	1.00	32.14
MOTA	3802	0	ALA	В	546	-5.189	5.490 12.170	1.00	33,78
ATOM	3803	Ŋ	HIS	В	547	-5.555	3.410 12.943	1.00	32.27
ATOM	3804	CA	HIS	B	547	-4.773	2.767 11.892	1.00	37.73
ATOM	3805	CB	HIS	В	547	-3.991	1.576 12.457	1.00	35.83
ATOM	3806	CG	HIS	В	547	-2.796	1.968 13.269	1.00	34.54
ATOM	3807	CD2	HIS	В	547	-2.698	2.553 14.486	1.00	30.23
ATOM	3808	ND1	HIS	В	547	-1.502	1.755 12.840	1.00	34.23
ATOM	3809	CE1	HIS	В.		-0.659	2.193 13.760	1.00	36.72
ATOM	3810	NE2	HIS	В	547	-1.360	2.681 14.768	1.00	31.48
ATOM	3811	C	HIS	В	547	-5.649	2.286 10.735	1.00	43.69
ATOM	3812	O	HIS	B	547	-5.178	2.152 9.606	1.00	46.04
ATOM	3813	N	ARG	В	548	-6.919		1.00	48.35
MOTA	3814	CA	ARG	В	548	-7.843	1.551 9.993	1.00	54.74

MOŢA	3815		ARG	B	548	-8.522	0.267 10.452	1.00	54.66
atom	3816		arg	B	548	-8.886	2.619 9,683	1.00	59.94
ATOM	3817	0	ARG	В	548	-8.580	3.812 9.672	1.00	62.81
ATOM	3818	N	LEU	B	549	-10.116	2.186 9.422	1.00	64.81
ATOM	3819	CA	LEU	В	549	-11.204	3.109 9.112	1,00	67.59
MOTA	3820	CB	LEU	В	549	-12.478	2.327 8.799	1.00	68.06
ATOM	3821	C	LEU	B	549	-11.449	4.069 10.279	1.00	69.12
ATOM	3822	0	LEU	B	549	-11,451	5.297 10,036	1.00	68.96
MOTA	3823	TXQ	LEU	В	549	-11.634	3.579 11.412	1.00	70.70
HETATM	3824	CP9	DES	В	600	-4.547	-6.077 22.000	1.00	18.55
HETATM	3825	CP8	DES	B	600	-3.163	-6,365 21,467		17.72
HETATM	3826	CP7	des	B	600	-2.897	-7.853 21.381		21.17
HETATM	3827	CP6	DES	B	600	-3.719	-8.551 20.374		22.05
HETATM	3828	CP1	DES	B	600	-3.405			21.32
HETATM	3829	CP2	DES	B	600	-4.239			21.61
HETATM	3830	CP3	DES	B	600	-5.388		-	24.89
HETATM	3831	OP3	DES	B	600	-6.244	-10.339 17.600		24.94
HETATM	3832	CP4	DES	В	600	-5.718			24.08
HETATM	3833	CP5	DES	В	600	-4.877			24.67
HETATM	3834	C7	DES	В	600	-1.998			16.67
HETATM	3835	C6	DES	В	600	-1.330	-7.834 23.325		15.39
HETATM	3836	C5	DES	В	600	-2.054			17.62
HETATM	3837	C4	DES	В	600	-1.433	-7.072 25.634		16.16
HETATM	3838	C3	DES	В	600	-0.077			20.04
HETATM	3839	О3	DES	В	600	0.509	-6.113 26.655		15.55
HETATM	3840	C2	DES	В	600	0.669			18.94
HETATM	3841	Cl	DES	В	600	0.035	-7.440 23.241		15.20
HETATM	3842	C8	DES	В	600	-1.642	-9.903 21.942		17.61
HETATM	3843	C9	DES	В	600		-10.009 20.998	•	11.63
HETATM	3844	Cl	CBM	B	417	-4.997			55.80
HETATM	3845	04	СВМ	В	417		-24.187 25.003		55.56
HETATM	3846	Q 3	CBM	₿	417		-22.559 26.552		56.04
HETATM	3847	C2	CBM	В	417		-21.960 24.264		57.04
HETATM	3848	C1	CBM	В	530	-15.278	-5.124 10.243		87.39
HETATM	3849	04	CBM	В	530	-15.852	-5.086 9.064		87.68
HETATM	3850	03	CBM	B	530	-15.832	-4,291 11.201		86.22
HETATM	3851	C2	CBM	B	530	-14.207	-5.886 10.628		87.65
ATOM	3852	CB	HIS	C	687	9.818	-20.030 -2.211	1.00	
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ATOM	3854	0	HIS	C	687	11.204	-20.840 -4.472	1.00	63.87
AŢOM	3855	N	HIS	C	687	7.944	-19.563 -3.758		65.42
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ATOM	3860	С	LYS	C	688		-20.127 -7.827	1.00	57.47
ATOM	3861	0	LYS	C	688		-20.379 -7.858	1.00	57,64
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ATOM	3865	CG2	ILE	C	689		-16.286-10.902		54.55
MOTA	3866	CG1	ILE	C	689		-17.603-10.551	1.00	52.90
. MOTA	3867	CD1	IĻE	C	689		-16.550-11.258	1.00	50.45
MOTA	3868	C	ILE	C	689		-17.611 -8.560	1.00	50.82
ATOM	3869	0	ILE	c	689		-17.550 -9.097	1.00	51.28
ATOM	3870	N	LEU	C	690		-17.162 -7.329	1.00	48.01
ATOM	3871	CA	LEU	Ċ	690		-16,570 -6.534	1.00	47.33
ATOM	3872	СВ	LEU	Č	690		-16.058 -5.199	1.00	42.51
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MOTA	3934	CB	SER	C .	697	26.019	-21.076-11.377	1.00	76.00
MOTA MOTA	3935 3936	С 0	SER SER	C	697 697	25.841 26.286	-18.960-12.696	1.00	78.44
ATOM	3937	OXT	SER	C	697	25.818	-17.809-12.489 -19.510-13.820	1.00	79.20 80.07
ATOM	3938	CB	LYS	D	686	-14.070	13.661 16.843	1.00	50.28
ATOM	3939	C	LYS	ď	686	-13.682	14.418 19.199	1.00	51.59
MOTA	3940	0	LYŞ	D	686	-12.629	14.738 19.759	1.00	50.42
MOTA	3941	N	LYS	D	686	-12.910	15.796 17.283	1.00	50,43
ATOM	3942	CA	LYS	D	686	-13.976	14.872 17.769	1.00	50.62
MOTA	3943	N	HIS	D	687	-14.617	13.676 19.787	1,00	49.91
MOTA	3944	CA	HIS	D	687	-14.447	13.176 21.144	1.00	51.28
ATOM	3945	CB	HIS	D	687	-15.806	12.984 21.828	1.00	54.12
ATOM	3946	CG	HIS	D	687	-15.713	12.336 23.177	1.00	60.06
ATOM	3947 3948	CD2 ND1	HIS	D	687	-15.418	11.064 23.539	1.00	61.05
ATOM ATOM	3949	CE1	HIS HIS	D D	687 687	-15.911 -15.741	13.030 24.352 12.215 25.378	1.00	62.39 62.76
ATOM	3950	NE2	HIS	Ď	687	-15.441	11.016 24.912	1.00	63.46
ATOM	3951	C	HIS	ā	687	-13.691	11.849 21.163	1.00	49.55
ATOM	3952	0	HIS	D	687	-14.099	10.878 20.524	1.00	50.84
ATOM	3953	N	LYS	D	688	-12.593	11.816 21.909	1.00	44.00
ATOM	3954	CA	LYS	D	688	-11.784	10.611 22.038	1.00	40.31
ATOM	3955	CB	LYS	D	688	-10,446	10.773 21.299	1.00	41.42
MOTA	3956	CG	LYS	D	688	-10.513	10.595 19.780	1.00	42.76
ATOM	3957	CD	LYS	D	688	-9.123	10.716 19.152	1.00	38.66
ATOM ATOM	3958 3959	CE NZ	LYS LYS	D D	688 688	-9.162 -7.894	10.529 17.640 10.970 16.986	1.00	38.28
ATOM	3960	C	LYS	D	688	-11.506	10.378 23.517	1.00	31.58 36.70
ATOM	3961	Õ	LYS	D	688	-11.271	11.326 24.266	1.00	33.38
ATOM	3962	N	ILE	D	689	-11,549	9.122 23.942	1.00	33.06
ATOM	3963	CA	ILE	D	689	-11.255	8.806 25.328	1.00	28.70
MOTA	3964	CB	ILE	D	689	-11.438	7.301 25.607	1.00	30.88
ATOM	3965	CG2	ILE	D	689	-10.725	6.912 26.899	1.00	31.45
ATOM	3966	CG1	ILE	D	689	-12.927	6.971 25.721	1.00	32.57
ATOM	3967	CD1	ILE	D	689	-13.308	5.679 25.031	1.00	29.79
MOTA MOTA	3968 3969	C O	ILE	D D	689 689	-9.790	9.193 25.541	1.00	27.64
ATOM	3970	И	LEU	Ď	690	-9.405 -8.985	9.649 26.611 9.021 24.496	1.00	25.54 24.25
ATOM	3971	CA	LEU	D	690	-7.563	9.348 24.549	1.00	26.63
ATOM	3972	CB	LEU	ď	690	-6.903	9.021 23.200	1.00	22.83
ATOM	3973	CĢ	LEU	D	690	-5.433	9.387 22.992	1.00	25.47
ATOM	3974	CD1	LEU	D	690	-4.595	8.772 24.108	1.00	24.03
ATOM	3975	CD2	LEU	D	690	-4.956	8.898 21.616	1.00	20,87
ATOM	3976	С	LEU	D	690	-7.344	10.823 24.902	1.00	26.64
ATOM	3977	0	LEU	D	690	-6.408	11.165 25.625	1.00	28.34
ATOM	3978	N	HIS	D	691	-8.206	11.694 24.383	1.00	27.77
ATOM ATOM	3979 3980	CA CB	HIS HIS	D D	691 691	-8.107 -9.156	13.125 24.665	1.00	29.16
ATOM	3981	CG	HIS	D	691	-9.156 -8.903	13.907 23.861 13.935 22.386	1.00	30.89 37.09
ATOM	3982	CD2	HIS	D	691	-7.750	14.000 21.679	1.00	41.39
ATOM	3983	ND1	HIS	D	691	-9.920	13.906 21.458	1.00	41.65
ATOM	3984	CE1	HIS	D	691	-9.407	13.953 20.242	1.00	44.64
ATOM	3985	NE2	HIS	D	691	-8.091	14.010 20.347	1.00	41.94
ATOM	3986	C	HIS	D	691	-8.338	13.373 26.159	1.00	26.65
ATOM	3987	0	HIS	D	691	-7.602	14.120 26.802	1,00	24.50
ATOM	3988	N	ARG	D	692	-9.371	12.742 26.703	1.00	25.70

MOTA	3989	CA	ARG	D	692	-9.691	12.912 28.114	1.00	29.11
atom	3990	CB	ARG	D	692	-10.959	12.134 28.472	1.00	30.84
ATOM	3991	CG	ARG	D	692	-11.255	12.129 29.963	1.00	41.63
ATOM .	3992	CD	ARG	Ď	692	-12,502	11.337 30.290	1.00	48.83
ATOM	3993	NE	ARG	D	692	-13.618	12.198 30.647	1.00	54.50
ATOM	3994	CZ	ARG	D	692	-14.498	12.677 29.774	1.00	5.9.37
MOTA	3995	NH1	ARG	Ď	692	-14.392	12.371 28.486	1.00	60.97
ATOM	3996	NH2	ARG	D	692	-15.483	13.464 30.188	1.00	59.07
ATOM	3997	C	ARG	D	692	-8.548	12.451 29.011	1.00	
ATOM	3998	Õ	ARG						28.30
				D	692	-8.139	13.167 29.929	1.00	26.50
ATOM	3999	N	LEU	D	693	-8.030	11.259 28.737	1.00	24.87
MOTA	4000	CA	LEU	D	693	-6.943	10.705 29.536	1.00	27.17
ATOM	4001	CB	LEU	D	693	-6.674	9.254 29.116	1.00	28.45
MOTA	4002	CG	LEU	Ď	693	-7.844	8.300 29.391	1.00	30.40
ATOM	4003	CD1	LEU	, D	693	-7.575	6,932 28.778	1.00	34.79
MOTA	4004	CD2	LEU	Ð	693	-8.043	8.171 30.894	1.00	32.02
MOTA	4005	C	LEU	D	693	-5.670	11.539 29.440	1.00	25.96
ATOM	4006	0	LEU	D	693	-4.948	11.700 30.428	1.00	27.01
MOTA	4007	N	LEU	D	694	-5.395	12.080 28.257	1.00	25.33
MOTA	4008	CA	LEU	D	694	-4.207	12.906 28.062	1.00	27.22
MOTA	4009	CB	ĻEU	D	694	-3.948	13.126 26.572	1.00	24.61
ATOM	4010	CG	LEU	D	694	-3.118	12.080 25.825	1.00	22.20
ATOM	4011	CD1	LEU	D	694	-3,230	12.332 24.324	1.00	21.13
ATOM	4012	CD2	LEU	Ď	694	-1.666	12.148 26.275	1.00	21.34
ATOM	4013	C	LEU	D	694	-4.336	14.270 28.742	1.00	32.40
ATOM	4014	o	LEU	D	694	-3.339	14.889 29.102		
MOTA	4015	N	GLN	D	695		14.733 28.915	1.00	31.55
MOTA	4015	CA				-5.570		1.00	36.93
			GLN	D	695	-5.820	16.032 29.528	1.00	43.18
MOTA	4017	CB	GLN	D	695	-7.022	16.694 28.862	1.00	40.48
MOTA	4018	CG	GLN	D	695	-6.772	17.071 27.422	1.00	37.99
ATOM	4019	CD	GLN	D	695	-7.943	17.764 26.795	1.00	35.86
ATOM	4020	OE1	GLN	D	695	-7.863	18.895 26.342	1.00	38.84
MOTA	4021	NE2	GLN	D	695	-9.082	17.060 26.757	1.00	31.62
ATOM	4022	С	GLN	D	695	-6.049	16.009 31.034	1.00	48.74
MOTA	4023	0	GLN	D	695	-6.119	17.065 31.660	1.00	51.25
ATOM	4024	N	ASP	D	696	-6.175	14.818 31.611	1.00	54.01
ATOM	4025	CA	ASP	D	696	-6.398	14.702 33.047	1.00	62.23
MOTA	4026	CB	ASP	D	696	-6,217	13.238 33.485	1.00	63.97
MOTA	4027	CG	ASP	D	696	-7.527	12.467 33.475	1.00	67.72
ATOM	4028	OD1	ASP	D	696	-8.528	12.996 32.941	1.00	68.11
MOTA	4029	OD2	ASP	D	696	-7.552	11.333 34.003	1,00	68.95
MOTA	4030	C	ASP	D	696	-5.456	15.622 33.840	1.00	65.60
ATOM	4031	0	ASP	D	696	-4.312	15.189 34.134	1.00	68.33
MOTA	4032	OXT	ASP	D	696	-5.874	16.755 34.140	1.00	69.20
HETATM	4033	0	нон		1	16.153	-0.605 -4.425	1.00	17.11
HETATM	4034	0	нон		2	16.570	-5.304-16.560	1.00	21.44
HETATM	4035	0	нон		3	18.526	0.742 -4.495	1.00	23.43
HETATM	4036	Ö	нон		4	13.647	-2.187 8.588	1.00	25.82
HETATM	4037	0	нон		5				
HETATM					5 6	9.778	-5.825 2.509	1.00	20.58
	4038	0	HOH			17.072	-3.605 -8.015	1.00	18.38
HETATM	4039	0	нон		7	24.920	-1.689 -2.780	1.00	25.74
HETATM	4040	0	нон		8	7.321	-5.649 5.061	1.00	24.11
HETATM	4041	0	нон		9	25.976	-3.535 15.158	1.00	26.78
HETATM	4042	0	нон		10	15.088	-7.006-15.192	1.00	19.64
HETATM	4043	0	нон		11	14.070	0.925 -5.953	1.00	20.55
HETATM	4044	0	нон		12	18.008	3.407 -6.654	1.00	32.30
HETATM	4045	0	HOH		13	31.949	-8.393 13.487	1.00	30.64
HETATM	4046	0	нон		14	19.625	-2.804 -4.279	1.00	24.45

HETATM	4047	0	нон	15	11.741	1.079-21.140	1.00	25.87
HETATM	4048	0	нон	16	25.067	13.951, 14.153	1.00	31.07
HETATM	4049	0	нон	17	15.501	1.323-10.393	1.00	21.01
HETATM	4050	0	HOH	18	13.880	3.349-11.482	1.00	24.28
HETATM	4051	0	HOH	1 9	17.591	0.979 -8.828	1.00	35.26
· HETATM	4052	0	нон	20	23.682	-2.041 -0.314	1.00	37,90
HETATM	4053	0	HOH	21	15.754	9.496 11.841	1.00	39.44
HETAŢM	4054	0	HOH	22	-4.943	7.574 -3.066	1.00	37.67
HETATM	4055	0	нон	23	6.877	0.354-15.982	1,00	36.92
HETATM	4056	0	НОН	24	15.806	-4.002 8.671	1.00	30.38
HETATM	4057	0	нон	25	17.185	-3.158 -5,321	1.00	28.89
HETATM	4058	0	нон	26	17.572	9.249 17.009	1.00	30.15
HETATM	4059	0	нон	27	24.096	-2.929 11.604	1.00	31.37
HETATM	4060	0	нон	28	22.324	-5.871-11.980	1.00	32.74
HETATM	4061	0	нон	29		-12.361 -0.801	1.00	36.61
HETATM	4062	0	нон	30	11.173	13.442 -2.719	1.00	35.41
HETATM	4063	0	нон	31	15.438	-9.527 5.483	1.00	29.88
HETATM	4064	0	нон	32	9.946	-6.564 5.983	1.00	35.05
HETATM	4065	0	нон	33	7.599	11.680-15.261	1.00	38.68
HETATM	4066	0	нон	34	20.112	10.503 -5.109	1.00	42.66
HETATM	4067	0	НОН	35	15.972	10.343 14.897	1.00	41.73
HETATM	4068	0	нон	36	22.401	-5.914 -9.527	1.00	28.08
HETATM	4069	0	НОН	37	16.128	-0.899 -8.109	1.00	33.13
HETATM	4070	O	НОН	38	3.581	15.655 -3.706	1.00	41.37
HETATM	4071	0	нон	39	31.900	13.545 21.339	1.00	37.79
HETATM	4072	ō	нон	40	20.058	-7.530 14,119	1.00	47.51
HETATM	4073	ō	нон	41	34.634	6.668 15.632	1.00	29.24
HETATM	4074	o	нон	42	17.968	10.511 -9.085	1.00	44.60
HETATM	4075	0	нон	43		-17.325 -4.088	1.00	44.10
HETATM	4076	0	нон	44	4.034	-1.472 27.521	1.00	15.22
HETATM	4077	0	нон	45	-5.943	-0.018 36.088	1.00	21.11
HETATM	4078	0	нон	46	6.084	-1.509 29.478	1.00	19.51
HETATM	4079	0	нон	47	9.762	1.061 15.621	1.00	27.74
HETATM	4080	0	нон	48	1.804	0.717 17.260	1.00	20.97
HETATM	4081	0	нон	49	0.929	0.421 30.281	1.00	19.64
HETATM	4082	0	нон	50	9.627	4.271 31.231	1.00	19.02
HETATM	4083	0	нон	51	2.121	-0.261 13.654	1.00	26.09
HETATM	4084	0	нон	52	20.060	10,275 17.711		25.49
HETATM	4085	0	нон	53	-6.786	0.736 33.483	1.00	22.34
HETATM	4086	0	нон	54	2.751	-4.136 27.760	1.00	19.93
HETATM	4087	0	нон	55	5.994	-4.079 31.292	1.00	32.27
HETATM	4088	0	нон	56	19.416	16.921 21.645	1.00	25.54
HETATM	4089	0	нон	5 7	4.833	2.325 29.006	1.00	19.00
HETATM	4090	0	нон	58	-7.638	-8.931 37.809	1.00	24.79
HETATM	4091	0	нон	59	28.442	-4.673 21.875	1.00	24.32
HETATM	4092	0	нон	60	1.094	-4.893 32.100	1.00	24.27
HETATM	4093	0	нон	61	0.905	-7,306 32.783	1.00	21.33
HETATM	4094	O	нон	62	3.396	-2.971 32.306	1.00	26.13
HETATM	4095	0	НОН	63		4.576 28.391	1.00	33.43
HETATM	4096	0	нон	64	19.551	-6.473 16.597	1.00	35.38
HETATM	4097	ō	нон	65		-19.627 15.665	1.00	27.99
HETATM	4098	ō	нон	66	-7.275	-9.745 31.077	1.00	27.00
HETATM	4099	ō	нон	67	10.189	3.580 16.510	1.00	24.19
HETATM	4100	Ō	нон	68	2.741	0.716 28.382	1.00	16.48
HETATM	4101	o	нон	69	23.522	-4.323 13.943	1.00	27.48
HETATM	4102	ō	нон	70	17.133	8.133 19.686	1.00	32.24
HETATM	4103	ō	нон	71	-0.295	4.535 35.884	1.00	33.42
HETATM		ō	нон	72	9.519	10.828 34.842	1.00	29.38
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HETATM	4105	0	нон	73	6.291	14,878 29,070	1.00	28,21	-
Hetatm	4106	0	нон	74	-1.721	6.480 13.381		49,91	
HETATM	4107	0	нон	75	10.091	-15.427 26.194	1.00	24,17	
HETATM	4108	0	HOH	76	5.029	7.461 17.718	1.00	18.91	
HETATM	4109	0	HOH	77	3.758	2.086 14.306	1.00	28.28	
HETATM	4110	0	нон	78	-1.390	-18.739 33.183	1.00	41.11	
HETATM	4111	0	HOH	79	12.703	-8,687 32.119	1.60	36.21	
HETATM	4112	0	HOH	80	22.270	-6.451 14.844	1.00	33.21	
HETATM	4113	0	HOH	81	1.458	4.605 34.026	1.00	23.59	
HETATM	4114	Ø	HOH	82	1.759	-2.158 30.374	1.00	28.78	
HETATM	4115	0	нон	83	6.153	-21.372 23.188	1.00	31.14	
HETATM	4116	0	нон	84	36.525	0.463 20.792	1.00	45.26	
HETATM	4117	0	HOH	85	13.832	9.696 13.792	1.00	33.12	
HETATM	4118	0	нон	86	31.166	6.635 24.924	1.00	35.19	
HETATM	4119	0	нон	87	8.844	-10.389 34.180	1.00	48.80	
HETATM	4120	0	нон	88	9.581	-6.956 34.136	1.00	42.95	
HETATM	4121	0	HOH	89	-1.563	15.887 27.596	1.00	39.35	
HETATM	4122	0	нон	90	-5.286	10.345 32.757	1.00	35.20	
HETATM	4123	0	HOH	91	15.035	0.607 13.339	1.00	29.53	
HETATM	4124	0	НОН	92	-10,984	-1.500 30,272	1.00	29.84	
HETATM	4125	0	НОН	93	-7.239	-0.271 -1.207	1.00	48.98	
HETATM	4126	0	НОН	94	18.022	-4.902 34.286	1.00	35.28	
HETATM	4127	0	НОН	95	29.347	-6.319 19.920		37.20	
HETATM	4128	0	нон	96	-14.309	-19.369 20.945	1.00	30.23	
HETATM	4129	0	нон	97	31.496	4.614 18.716	1.00	38.79	
HETATM	4130	0	нон	98	26.567	9.759 25.629	1.00	29.72	
HETATM	4131	0	НОН	99	2.848	14.531 1.134	1,00	38,08	1
HETATM HETATM	4132	0	нон	. 100	-9.373	5.699 -7.953	1,00	53.23	
HETATM	4133 4134	O.		101	-10,137	-0.553 -6.742	1.00	47.72	
HETATM	4135	0	нон нон	102 103	10.558	-10.363 15.403	1.00	40.97	
HETATM	4136	0	нон	103	21.079	17,166 18.929 -5.921 22.506	1.00	32.40	
HETATM	4137	0	нон	104	25,810 22.493	-3.921 22.506	1.00 1.00	37.69 49.94	
HETATM	4138	Ö	нон	106	19.317	10.977 38.703	1.00	49.54	
HETATM	4139	ō	нон	107	4.479	13.951 3.045	1.00	45.33	
HETATM	4140	ō	НОН	108	20.418	19.353 34.044	1.00	42.18	
HETATM	4141	Ö	нон	109	-3.065	8.936 14.062	1.00	38.41	
HETATM		0	нон	110		-4.674-10.940		55.67	
HETATM	4143	O	нон	111	2.032	-6.387 5.614		42.23	
HETATM	4144	0	нон	112	0.601	0.228-17.268		40.57	
HETATM	4145	0	нон	113	4.903	13.488-14.050		47.72	
HETATM	4146	0	нон	114	3.986	16.140 -0.960		40.66	
HETATM	4147	0	нон	115	12.968	-19.561 2.741	1.00	40.76	
HETATM	4148	O	нон	116	7.170	15.583 2.599	1.00	43.69	
HETATM	4149	O	НФН	. 117	-1.966	10.606 3.572	1.00	52.63	
HETATM	4150	0	HOH	118	29.030	10.644 6.707	1.00	42.54	
HETATM	4151	0	НОН	119	0.468	4.354 8.374	1.00	38.69	
HETATM	4152	0	HOH	120	29.086	17.119 19.272	1.00	45,51	
HETATM	4153	0	НОН	121	24.614	17.609 20.174	1.00	\$3.55	
HETATM	4154	0	нон	122	-15,318	0.362 26.686	1.00	36.77	
HETATM	4155	0	нон	123	-3.857	-24.786 28.325	1.00	39.64	
HETATM	4156	0	нон	124	21.728	22.178 31.983	1.00	43.73	
HETATM		0	нон	125	31.650	-7.370 21.642	1.00	40.53	
HETATM	4158	0	нон	126	25.421	10.436 21.161	1.00	32.31	
HETATM	4159	0	НОН	127	10.317	-9.457 12.998	1.00	37.77	
HETATM	4160	0	нон	128	22.723	14.887 15.427		47,90	
HETATM	4161	0	нон	129	6.702	9.556 37.596	1.00	47.81	
HETATM	4162	0	нон	130	27.987	13.557 7.167	1.00	41.15	
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HETATM	4163	0	нон	131	30.798	16.499 7.588	1.00	58.47
HETATM	4164	0	нон	132	10.071	-0.571-20.393	1.00	38.79
HETATM	4165	0	нон	133	9.562	8.334-21.392	1.00	36.80
HETATM	4166	0	нон	134	6.712	6.058 8.822	1.00	37.43
HETATM	4167	O	HOH	135	5.927	8.454 10.594	1.00	42.34
HETATM	4168	0	нон	136	4.472	6.306 10.973	1.00	37.35
HETATM	4169	Ö	нон	137	6.792	7.721 7.051	1.00	47.23
HETATM	4170	Q	нон	138	24.513	11.582 33,724	1.00	45.55
HETATM	4171	0	нон	139	-2.528	-20.361 12.354	1.00	52.13
Hetatm	4172	0	HOH	140	-7.864	7.706 19.248	1.00	47.82
HETATM	4173	0	нон	141	11.577	-16.962 34.398	1.00	39.43
HETATM	4174	O	нон	142	18.087	12.263 -5.507	1.00	33.36
HETATM	4175	0	нон	143	-6.816	-14.190 10.674	1.00	51.32
HETATM	4176	Θ	нон	144	-7.377	-16.701 33.528	1.00	57.11
HETATM	4177	0	HOH	145	-5.379	-20.107 32.689	1.00	43.01
HETATM	4178	0	нон .	146	8.766	-7.947-16.274	1.00	49.96
HETATM END	4179	O	нон	147	10.946	-7.937-18.142	1.00	55.67

 ${\bf Appendix~3}$ Atomic Coordinates for Human ER α Complexed With OHT

CRYST1	58.24	12 58.	242	277.46	7 90.00	90.00 1	.20.00	P 65	2 2 12	
ORIGX1	1.0	00000	0.00	0000	0.000000	0.000	00			
ORIGX2	0.0	00000	1.00		0.000000					
ORIGX3		00000	0.00		1.000000					
SCALE1		17170	0.00		0.000000		•			
SCALE2		00000	0.01		0.000000					
SCALE3		00000	0.00		0.003604					
00	y • • ·	,,,,,	0.00		0.00000	2.040				
ATOM	1	СВ	LEU	306	6.638	11.502	3.989	1.00	61.20	
MOTA	2	C	LEU	306	7.381	10,684	6.231	1.00	61.47	
MOTA	3	0	LEU	306	6.407	11.020	6.905	1.00	62.09	
ATOM	4	N	LEU	306	6.369	9.128	4.588	1.00	62.32	
ATOM	5	СA	LEU	306	7.232	10.330	4.754	1.00	61.30	
MOTA	6	N	ALA	307	8.609	10.605	6.730	. 1.00	60.52	
ATOM	7	CA	ALA	307	8.891	10.912	8.125	1.00	58.77	
ATOM	8	CB	ALA	307	10.318	10.501	8.465	1.00	59.70	
ATOM	9	C	ALA	307	8.692	12.393	8.429	1.00	57.51	
ATOM	10	0	ALA	307	8.451	12.770	9.574	1.00	57.64	
MOTA	11	N	LEU	308	8.789	13.228	7.400	1.00	55.82	
MOTA	12	CA	LEU	308	8,638	14.668	7,573	1.00	56.62	
MOTA	13	CB	LEU	308	9.298	15.402	6.406	1.00	57.48	
ATOM	14	CG	LEU	308	10.637	14.822	5.948	1.00	59.17	
ATOM	15	CD1	LEU	308	10.474	14.189	4.569		60.38	
ATOM	16	CD2	LEU	308	11.694	15.920	5.933	1.00	58.46	
MOTA	17	C	LEU	308	7.190	15.130	7.710		56.51	
ATOM	18	0	LEU	308	6.935	16.307	7.961	1.00	55.58	
MOTA	19	N	SER	309	6.246	14,208	7.546	1.00	57.04	
MOTA	20	CA	SER	309	4.828	14,544	7.657	1.00	56.46	
MOTA	21	CB.	SER	309	4.034	13.896	6.514	1.00	56.79	
ATOM	22	OG	SER	309	4.071	12.479	6.588	1.00	57.23	
ATOM	23	C	SER	309	4.261	14.095	9.003	1.00	56.13	
ATOM	24	O	SER	309	3.166	14.507	9.398	1.00	55.17	
MOTA	25	N	LEU	310	5.016	13.257	9.706	1.00	54.31	
ATOM	26	CA	LEU	310	4.591	12.749	11.004	1.00	53.55	
ATOM	27	CB	LEU	310	5.651	11.811	11.582	1.00	54.40	
ATOM	28	CG	LEU	310	5,586	10.333	11.189	1.00	56.49	
ATOM	29	CD1	LEU	310	5.530	10.200	9.676	1.00	57.06	
ATOM	30	CD2	LEU	310	6.809	9.610	11.739	1.00	57.28	
ATOM	31	C	LEU	310	4.330	13.865	12.003	1.00	53.18	
MOTA	32	0	LEU	310	4.993	14.905	11.984	1.00	53.17	
ATOM	33	N	THR	311	3.352	13.641	12.874	1.00	51.71	
ATOM	34	CA	THR	311	3.017	14.604	13.912	1,00	49.93	
MOTA	35	CB	THR	311	1.527	14.554	14.275	1.00	48.96	
ATOM	36	OG1	THR	311	1.242	13.311	14.930	1.00	47.20	
ATOM	37	CG2	THR	311	0.666	14.688	13.027	1.00	50.99	
ATOM	38	C	THR	311	3.815	14.201	15.145	1.00	48.84	
ATOM	39	0	THR	311	4.371	13.103	15.197	1.00	46.66	
ATOM	40	N	ALA	312	3.857	15.078	16.141	1.00	48.76	
ATOM	41	CA	ALA	312	4.590	14.798	17.369	1.00	47.75	
ATOM	42	CB	ALA	312	4.359	15.910	18.378	1.00	47.06	
ATOM	43	C	ALA	312	4.171	13.460	17.964	1.00	47.41	
ATOM	44	0	ALA	312	5.009	12.609	18.262	1.00	45.52	

ATOM	45	N	ASP	313	2 060	12 275	10 143	1 00	47 50	•
ATOM	46	CA	ASP	313	2.868 2.367	13.275 12.032	18.143 18.714	1.00 1.00	47.58 .47.63	-
ATOM	47	CB	ASP	313	0.848	12.100	18.879		. 51.96	
ATOM	48	CG	ASP	313	0.430	12.872	20.118	1.00	56.21	
MOTA	49	OD1	ASP	313	1.314	13.234	20.929	1.00	56.38	
MOTA	50	QD2	ASP	313	-0.785	13.117	20.282	1.00	59.15	
MOTA	51	Ċ	ASP	313	2.745	10.846	17.835	1.00	43.93	
MOTA	52	0	ASP	313	2.959	9.741	18.330	1.00	44.77	
ATOM	53	И	GLN	314	2.826	11.081	16.531	1.00	44.52	
MOTA	54	CA	GLN	314	3.182	10.028	15.588	1.00	44.73	
MOTA	55	CB	GLN	314	2.849	10,464	14.156	1.00	45.05	
MOTA	56 57	CG	GLN	314	1.534	9.886	13.626	1.00	48.47	
MOTA MOTA	57 58	CD OF1	GLN	314	0.982	10.646	12.428	1.00	50.37	
ATOM	58 59	OE1	GLN GLN	314 314	1.649 -0.248	11.515 10.318	11.856 12.043	1.00	49.38	
ATOM	60	C	GLN	314	4.673	9.722	15.707	1.00	51.74 43.26	
MOTA	61	0	GLN	314	5.100	8.580	15.707	1.00	43.26	
TOM	62	N	MET	315	5.459	10.757	15.980	1.00	42.29	
TOM	63	CA	MET	315	6.901	10.606	16.130	1.00	41.26	
MOTA	64	CB	MET	315	7.565	11.985	16.224	1,00	42.43	
MOTA	65	CĢ	MET	315	9.082	11.939	16.356	1.00	42.34	
NOT	66	SD	MET	315	9.906	11.190	14.925	1.00	46.22	
NOT	67	CE	MET	315	9.547	12.408	13.680	1.00	37.32	
TOM	68	Ç	MET	315	7.218	9.791	17.379	1.00	38.89	-
TOM	69 70 \	0	MET	315	8.002	8.841	17.335	1.00	40.02	
TOM	, 0	7.4	VAL	316	6.599	10.165	18.491	1.00	37.65	
TOM	71 73	CA	VAL	316	6.819	9.476	19.756	1.00	39.56	
TOM TOM	72 73	CB CG1	VAL VAL	316 316	6.023 6.245	10.136 9.373	20.897	1.00	39.22	
TOM	74	CG2	VAL	316	6.445	11,583	22.192 21.059	1.00	44.43 41.04	
TOM	75	C	VAL	316	6.404	8.012	19.664	1.00	40.04	
TOM	76	O	VAL	316	7,141	7.117	20.077	1.00	37.86	
MOT	77	N .	SER	317	5.215	7.767	19.127	1.00	41.90	
MOT	78	CA	SER	317	4.733	6.400	18.997	1.00	41.68	
MOT	79	CB	SER	317	3.311	6.402	18.415	1.00	43.85	
TOM	80	QG	SER	317	3.225	5.631	17.230	1.00	49.38	
TOM	81	C	SER	317	5.696		18.114	1.00	39.72	•
TOM	82	0	SER	317	6.011	4.446	18.407	1.00	40.21	
MOT	83 84	N Ca	ALA	318	6.182	6.220	17.043	1.00	38.35	
TOM TOM	8 <u>4</u> 85	CA CB	ALA ALA	318 318	7.114	5.540	16.153	1.00	36.96	
TOM	86	C	ALA	318	7.485 8.375	6.448 5.137	14.986 16.920	1.00 1.00	37.92 38.31	
TOM	87	0	ALA	318	8.820	3.992	16.844	1.00	33.94	
TOM	88	N	LEU	319	8.938	6.089	17.664	1.00	36.92	
TOM	89	CA	LEU	319	10.161	5.854	18.438	1.00	38.56	
TOM	90	СВ	LEU	319	10,660	7.174	19.040	1.00	40.86	
TOM	91	CG	LEU	319	11.136	8.264	18.071	1,00	41.25	
TOM	92 ·	CD1	LEU	319	11.714	9.440	18.857	1.00	44.30	
TOM	93	CD2	LEU	319	12.182	7.693	17.140	1.00	42.61	
TOM	94	С	LEU	319	9.965	4.826	19.549	1.00	38.33	
TOM	95	0	LEU	319	10.779	3.916	19.729	1.00	33.91	
TOM	96	N	LEU	320	8.879	4.982	20.297	1.00	37.39	
TOM	97	CA	LEU	320	8.567	4.067	21.387	1.00	41.55	
MOT	98	CB	LEU	320	7.239	4.467	22.049	1.00	38.47	
TOM	99	CG CD1	LEU	320	7.236	5.582	23.099	1.00	44.81	
TOM TOM	100 101	CD1 CD2	LEU LEU	320 320	5.876 8.334	5.634 5.332	23.802 24.112	1.00	44.96 43.36	
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	ATOM	103	0	LEU	320	8.971	1.697	21.443	1.00	41.87	
	MOTA	104	N	ASP	321	7.812		19.696	1.00	43.94	-
	MOTA	105	CA	ASP	321	7.613		19.053	1.00	44.77	
	ATOM	106	CB	ASP	321	6.669		17.860	1.00	48.39	
•	ATOM	107	CG	ASP	321	5.206		18.255	1.00	52.39	
	ATOM	108	OD1	ASP	321	4.901	1.422	19.464	1.00	53.56	
	ATOM	109	OD2	ASP	321	4.357		17.346	1.00	55.81	
	ATOM	110	C	ASP	321	8.911	0.565	18.568	1,00	44.37	
	ATOM	111	0	ASP	321	9.030	-0.661	18,533	1.00	44.67	
	ATOM	112	N	ALA	322	9.878	1.395	18.193	1.00	40,75	
	ATOM	113	CA	ALA	322	11.153	0.905	17.686	1.00	37.81	
	MOTA	114	CB	ALA	322	11.772	1,954	16.776	1.00	38.07	
	ATOM	115	C	ALA	322	12.148	0.513	18.769	1.00	35.52	
	MOTA	116	0	ALA	322	13.219	-0.020	18.473	1.00	36.11	
	ATOM	117	N	GLU	323	11.799	0.768	20.022	1.00	35.61	
	ATOM	118	CA	GLU	323	12.704	0.460	21.117	1.00	36.39	
	ATOM	119	CB	GLU	323	12.042	0.768	22.459	1,00	35.09	
	ATOM	120	CG	GLU	323	12.209		22.899	1.00	37.93	
	ATOM	121	CD	GLU	323	13.657	2.569	23.200	1.00	37.29	
	ATOM	122	OE1	GLU	323	14.313	3.173	22.326	1.00	34.21	
	ATOM	123	OE2	GLU	323	14.134	2.245	24.309	1.00	38.02	
	ATOM	124	C	GLU	323	13.205	-0.978	21.110	1.00	38.01	
	ATOM	125	0	GLU	323	12.425	-1.931	20.999	1.00	38.37	
	MOTA	126	И	PRO	324	14.527	-1.151	21.225	1.00	36.03	-
	ATOM	127	CD	PRO	324	15.522	-0.069	21.345	1.00	36.69	
	ATOM ATOM	128 129	CA CB	PRO PRO	324 324	15.158 16.633	-2.474	21,240	1.00	36.42	
	ATOM	130	CG	PRO	324	16.811	-2.166 -0.807	21.003 21.610	1,00 1,00	35.75 35.46	
	ATOM	131	C	PRO	324	14.940	-3,162	22.583	1.00	35.75	
	ATOM	132	õ	PRO	324	14.616	-2.517	23.580	1.00	34.97	
	ATOM	133	N	PRO	325	15.134	-4.485	22.631	1,00	35.24	
	ATOM	134	CD	PRO	325	15.530	-5.386	21.534	1.00	37.02	
	ATOM	135	CA	PRO	325	14.942		23.889	1.00	34.65	
	ATOM	136	CB	PRO	325	14.753	-6.652	23.439	1.00	35.83	
	ATOM	137	CG	PRO	325	15.589	-6.743	22.200	1.00	34.88	
	MOTA	138	C	PRO	325	16.132	-5.070	24.824	1.00	34.51	
	ATOM	139	0	PRO	325	17.237	-4.723	24.399	1.00	29.92	
	ATOM	140	N	ILE	326	15.899	-5.322	26.106	1.00	33.62	
	MOTA	141	CA	ILE	326	16.975	-5.265	27.075	1.00	35.02	
	ATOM	142	CB	ILE	326	16.458	-4.891	28.473	1.00	38.11	
	ATOM	143	CG2	ILE	326	17.557	-5.110	29.504	1.00	38.70	
•	MOTA	144	CG1	ILE	326	15.987	-3.431	28.466	1.00	40.48	
	ATOM	145	CD1	ILE	326	16.035	-2.747	29.815	1.00	42.96	
	ATOM	146	C	ILE	326	17.567	-6.668	27.103	1.00	34.14	
	ATOM	147	0	ILE	326	16.875	-7.634	27.427	1.00	34.88	
	ATOM	148	N Ga	LEU	327	18.840	-6.784	26.745	1.00	29.64	
	ATOM	149	CA	LEU	327	19.493	-8.083	26.716	1.00	29.54	
	MOŢA MOTA	150 151	CB CG	LEU	327 327	20.528 19.978	-8.135 -7.800	25.587 24.196	1.00	27.76 29.02	
	ATOM	152	CD1	LEU	327		-7.800 -7.993	23.139	1.00	28.76	
	ATOM	153	CD1	LEU	327 327	21.068 18.775	-7.993 -8.688	23.139	1.00	31.26	
	ATOM	154	C	LEU	327	20.156	-8.438	28.030	1.00	31.21	
	ATOM	155	0	LEU	327	20.136	-7.578	28.891	1.00	30:12	
	ATOM	156	N	TYR	328	20.445	-9.725	28.181	1.00	30.22	
	ATOM	157	ÇA	TYR	328	21.087	-10.229	29.381	1.00	30,95	
	ATOM	158	CB	TYR	328	20.409	-11.520	29.842	1.00	33.38	
	ATOM	159	CG	TYR	328	19.194		30.686	1.00	33.05	
	MOTA	160	CD1	TYR	328	19.253	•	32.071	1.00	31.92	

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MOTA	161	CE1	TYR	328	18.152	-11.114	32.864	1.00	36.01	- •
MOTA	162	CD2	TYR	328	17.996	-10.862	30.110	1.00	36.05	
MOTA	163	CE2	TYR	328	16.880	-10.574	30.899	1.00	37.27	
MOTA	164	CZ	TYR	328	16.973	-10.702	32.274	1.00	37.66	
MOTA	165	OH	TYR	328	15.896	-10.397	33.071	1.00	44.66	
MOTA	166	C	TYR	328	22.529	-10.520	29.067	1.00	33.66	
ATOM	167	0	TYR	328	22.884	-10.744	27.910	1.00	34.78	
MOTA	168	N	SER	329	23.359	-10.496	30.103	1.00	33.97	
MOTA	169	CA	SER	329	24.767	-10.800	29.962	1.00	37.29	
MOTA	170	CB	SER	329	25.526	-10.342	31.204	1,00	36.51	
ATOM	171	OG	SER	329	26.787	-10.965	31.282	1.00	37.13	•
MOTA	172	C	SER	329	24.835	-12.317	29.832	1.00	40.43	
MOTA	173	0	SER	329	23.980		30,363	1.00	40.11	
ATOM	174	N	GLU	330	25.845	-12.811	29.128	1.00	41.40	
atom	175	CA	GLU	330	25.992		28.928	1.00	47.43	
MOTA	176	CB	GLU	330	26.423		27.484	1,00	48.64	
MOTA	177	CG	GLU	330	25.278		26.542	1.00	50.20	
ATOM	178	CD	GLU	330	25.765	-15.405	25.198	1.00	53.2 5	
ATOM	179	OE1	GLU	330	25.909		25.062	1.00	53.27	
ATOM	180	OE2	GLU	330	26.004		24.280	1.00	51.80	
ATOM	181	С	GLU	330	26.999		29.893	1.00	49.67	
ATOM	182	0	GLU	330	28.207		29.696	1.00	50.11	
ATOM	183	N	TYR	331	26.498		30.942	1.00	53.62	
ATOM	184	CA	TYR	331		-16.130	31.921	1.00	58.16	-
ATOM	185	CB	TYR	331		-15.078	32.774	1.00	59.55	•
ATOM	186	CG	TYR	331	27.239		33.860	1.00	63.08	
ATOM	187	CD1	TYR	331	26.656		33.682	1.00	64.50	
ATOM	188	CE1	TYR	331	25.864		34.676	1.00	65.99	
ATOM	189	CD2	TYR	331	27.010		35.065	1.00	63.52	
MOTA	190	CE2	TYR	331	26.219		36.066	1.00	65.60	
ATOM ATOM	191 192	CZ OH	TYR	331	25.648		35.864	1.00	67.20	
ATOM	192	C	TYR TYR	331 331	24.855 26,603		36.839 32.823	1.00	67.40 59.05	
MOTA	194	0	TYR	331	25.393		33.002	1.00	59.22	
ATOM	195	N	ASP	332	27.320		33.387	1.00	61.62	
ATOM	196	CA	ASP	332		-19.026	34,281	1.00	64.20	
ATOM	197	CB	ASP	332	27.681		34.500	1.00	65.99	
ATOM	198	CG	ASP	332		-21.516	34.648	1.00	68.11	
ATOM	199	OD1	ASP	332		-22.564	34.351	1.00	69.54	
ATOM	200	OD2	ASP	332		-21.505	35.060	1.00	67.40	
ATOM	201	С	ASP	332		-18.371	35.619	1.00	63.33	
ATOM	202	0	ASP	332	27.292	-18.073	36.406	1.00	63.90	
ATOM	203	N	PRO	333	25.096	-18.148	35.896	1.00	63.64	
ATOM	204	CD	PRO	333	23.945	-18.509	35.053	1.00	64.35	
ATOM	205	CA	PRO	333	24.677	-17.521	37.154	1.00	63.52	
MOTA	206	CB	PRO	333	23.165	-17.333	36.993	1.00	63.53	
ATOM	207	CG	PRO	333	22.866	-17.611	35.556	1.00	64.15	
ATOM	208	С	PRO	333	25.010	-18.419	38.332	1.00	63.29	
ATOM	209	0	PRO	333	25.129	-17.964	39.468	1.00	бЗ.28	
MOTA	210	N	THR	334	25.160	-19.704	38.037	1.00	64.26	
ATOM	211	CA	THR	334	25.475	-20.697	39.050	1.00	66.09	
ATOM	212	CB	THR	334	24.929	-22.080	38.645	1.00	66.90	
ATOM	213	OG1	THR	334	25.571	-22.513	37.439	1.00	68.06	
ATOM	214	CG2	THR	334		-22.012	38.411	1.00	67.57	
ATOM	215	С	THR	334		-20.804	39.269	1.00	65.67	
ATOM	216	0	THR	334		-21.323	40.289	1.00	64.77	
ATOM	217	N	ARG	335		-20.308	38.313	1.00	65.65	
ATOM	218	CA	ARG	335	29.214	-20.360	38.421	1.00	66.60	

ATOM	219	CB	ARG	335	29.835	-20.500	37.030	1.00	66.74	·
MOTA	220	.€	arg	335	29.757	-19.113	39.123	1.00	67.09	
atom	221	0	ARG	335	29.100	-18.071	39.148	1.00	67.31	
ATOM	222	N	PRO	336	30.968	-19.207	39.702	1.00	67.62	
ATOM	223	CD	PRO	336	31.820	-20.408	39.713	1.00	67.30	
ATOM	224	CA	PRO	336	31.601	-18.086	40.410	1.00	67,42	
MOTA	225	CB	PRO	336	32.982	-18.621	40.783	1.60	66.43	•
ATOM	226	CG	PRO	336	32.829	-20.097	40.779	1.00	67.52	
ATOM	227	C	PRO	336		-16.828	39.561	1.00	68.26	
ATOM	228	0	PRO	336		-16.895	38.371	1.00	69.04	
ATOM	229	N	PHE	337		-15.681	40.183	1.00	69.49	
ATOM	230	CA	PHE	337		-14.408	39.486	1,00	71.39	
MOTA	231	CB	PHE	337		-13.323	40.294	1.00	72.31	
ATOM	232	CG	PHE	337		-11.924	39.921	1.00	73,21	
ATOM	233	CD1	PHE	337		-11.287	38.833	1.00	72.83	
ATOM	234	CD2	PHE	337		-11.245	40.653	1.00	73.43	
ATOM	235	CE1	PHE	337	31.006		38.479	1.00	73.28	•
ATOM	236	CE2	PHE	337	32.573		40.306	1.00	73.00	
ATOM	237	CZ	PHE	337	31.980		39.217	1.00	72.90	
ATOM	238	C	PHE	337		-14.013	39.245	1.00	71.38	
ATOM	239	ō	PHE	337		-13.487	38.189	1.00	71.56	
ATOM	240	N	SER	338		-14.273	40.241	1.00	71.53	
ATOM	241	CA	SER	338		-13.947	40.172	1.00	70.98	
ATOM	242	СВ	SER	338		-14.487	41.414	1.00	70.43	
ATOM	243	OG	SER	338		-15.818	41.679	1.00	69.59	
ATOM	244	C	SER	338		-14.504	38.924	1.00	71.20	
ATOM	245	Q .	SER	338		-13.972	38.475	1.00	71.35	
ATOM	246	N	GLU	339		-15.573	38.369	1.00	70.20	
ATOM	247	CA	GLU -	339		-16.215	37.183	1.00	69.48	
ATOM	248	CB	GLU	339		-17.585	36.971	1.00	71.07	
ATOM .	249	CG	GLU	339		-18.740	37.656	1.00	72.60	
ATOM	250	CD	GLU	339		-20.089	37.318	1.00	74.26	
ATOM	251	OE1	GLU	339		-20.220	36.227	1.00	73.51	
ATOM	252	OE2	GLU	339		-21.020	38.144	1.00	76.44	
ATOM	253	C	GLU	339		-15.385	35.910	1,00	68.15	
ATOM	254	0	GLU	339	36.722		35.144	1.00	68.99	
ATOM	255	N	ALA	340	34.562	-14.874	35.694	1.00	64.41	
ATOM	256	CA	ALA	340	34.246	-14.083	34.507	1.00	60.69	
MOTA	257	ÇВ	ALA	340		-13.709	34.523	1.00	61.17	
ATOM	258	Ċ	ALA	340		-12.824	34.326	1.00	57.00	
ATOM	259	0	ALA	340		-12.270	35.287	1.00	57.46	
ATOM	260	N	SER	341		-12.388	33.076	1.00	52.15	
ATOM	261	CA	SER	341		-11,188	32.736	1.00	46.53	
ATOM	262	CB	SER	341		-11.439	31.497	1.00	48.64	
ATOM	263	og	SER	341		-10.226	30.846	1,00	46.48	
ATOM	264	С	SER	341		-10.087	32,444	1.00	43.52	
ATOM	265	Ō	SER	341		-10.248	31.589	1.00	39.92	
ATOM	266	N	MET	342	35.052	-8.978	33.166	1.00	41.24	
ATOM	267	CA	MET	342	34.121	-7.875	32.960	1.00	42.46	
ATOM	268	CB	MET	342	34.449	-6.723	33.912	1.00	45.61	
ATOM	269	CG	MET	342	33.228	-6.089	34.560	1.00	52.39	
ATOM	270	SD	MET	342	31.791	-7.201	34.631	1.00	57.92	
ATOM	271	CE	MET	342	31.791	-7.881	36.239	1.00	56.18	
ATOM	272	C	MET	342	34.124	-7.365	31.516	1.00	40.22	
ATOM	273	0	MET	342	33.063	-7.121	30.938	1.00	39.23	
ATOM	274	N .	MET	343	35.307	-7.204	30.930	1.00	38.72	
ATOM	275	CA	MET	343	35.395	-6.708	29.558	1.00	38.50	
ATOM	276	CB	MET	343	36.838	-6.318	29.336	1.00	41.15	
	2.0		,	J 2 J	30.030	0.710	63,610	1.00	47.73	

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•	ATOM	277	CG	MET	343	37.022	-5.749	27.804	1.00	40.31	
	ATOM	278	8D	MET	343	36.032	-4.260	27,427	1.00	45.23	-
	ATOM	279	CE	MET	343	36.113	-3.358	28.987	1,00	40.45	
	ATOM	280	C	MET	343	34.880	-7.741	28.561	1.00	35.36	
	ATOM	281	0	MET	343	34.368	-7.384	27.501	1.00	35.51	
	ATOM	282	N	GLY	344	35.017	-9.020	28,902	1.00	35.53	
	ATOM	283	CA	GLY	344	34.533	-10.072	28.024	1.00	33,41	
	MOTA	284	C	GLY	344	33.015	-10.063	28,047	1.60	31.74	
	ATOM	285	O	GLY	344	32.359	-10.233	27.019	1.00	29.58	
	ATOM	286	Ŋ	Leu	345	32.459	-9.860	29.238	1.00	32.89	
	ATOM	287	ÇA	LEU	345	31.011	-9.804	29.415	1.00	34.95	
•	ATOM	288	CB	LEU	345	30.665	-9.631	30.902	1.00	37.56	
	ATOM	289	CG	LEU	345	30.942	-10.774	31.883	1.00	43.63	
	ATOM	290	CD1	LEU	345	30.537	-10.357	33.297	1.06	41.57	
	MOTA	291	CD2	LEU	345	30,164	-11.998	31,449	1.00	42.80	
	ATOM	292	C	Leu	345	30.430	-8.614	28.633	1.00	33.71	
	ATOM ATOM	293 294	o N	Leu Leu	345	29.479	-8.757	27.868	1.00	30.29	
	ATOM	29 4 295	CA	LEU	346 346	31.021 30.569	-7.443 -6.217	28.843 28.193	1.00	30.20 32.00	
	MOTA	296	CB	LEU	346	31.317	-5.016	28.771	1.00	28.16	
	ATOM	297	CĢ	LEU	346	31.091	-4.767	30.269	1.00	29.84	
	ATOM	298	CD1	LEU	346	31.815	-3.498	30.668	1.00		
	ATOM	299	CD2	LEU	346	29.614	-4.644	30.581	1.00	33.97	
	ATOM	300	C	LEU	346	30.732	-6.250	26.682	1.00	30,70	-
	ATOM	301	0	LEU	346	29.869	-5.765	25.955	1,00	29.13	
	ATOM	302	N	THR	347	31.839	-6.816	26,212	1.00	30.47	
	ATOM	303	CA	THR	347	32.086	-6.911	24,781	1.00	30.93	
	ATOM	304	CB	THR	347	33.472	-7,501	24.497	1.00	29.97	
	ATOM	305	OG1	THR	347	34.481	-6.604	24.982	1.00	35.40	
	ATOM	306	CG3	THR	347	33.666	-7.707	23.004	1.00	33.58	
	ATOM	307	C	THR	347	31.036	-7.804	24.122	1.00	31.97	
	MOTA MOTA	308 309	0	THR	347	30.516	-7.486	23.049	1.00	30.75	
	ATOM	310	N CA	asn Asn	348 348	30.737 29.757	-8.926 -9.868	24.768 24.242	1.00 1.00	29.31 32.63	
	ATOM	311	CB	asn	348	29.767	-11.161	25.065	1.00	31.64	
	ATOM	312	CG	ASN	348		-12.117	24.662	1.00	39.14	
	ATOM	313	OD1	ASN	348		-12,078	25.220	1.00	41.91	
	ATOM	314	ND2	ASN	348		-12.970	23.683	1.00	42.05	
	MOTA	315	C	ASN	348	28.361	-9.251	24.262	1.00	29.62	
	ATOM	316	0	asn	348	27.558	-9.477	23.353	1.00	32.76	
	ATOM	317	N	LEU	349	28.078	-8.467	25.298	1.00	28,74	•
	ATOM	318	CA	LEU	349	26.782	-7.811	25.421	1.00	28.58	
	ATOM	319	CB	LEU	349	26.650	-7.148	26.795	1.00	26.56	
	ATOM	320	CG	LEU	349	25.376	-6.328	27.050	1.00	33.67	
	ATOM	321	CD1	LEU	349	24.140	-7.199	26.840	1.00	28.82	
	ATOM	322	CD2	LEU	349	25.392	-5.779	28.471	1.00	33.11	
	MOTA	323	C	LEU	349	26.638	-6.762	24.319	1.00	28.07	
	MOTA MOTA	324	0	LEU	349	25.616	-6.703	23.629	1.00	25.22	
	ATOM	325 · 326	N C2	ALA	350	27.675	-5.941 -4.886	24.157	1.00	28.50	
	ATOM	320 327	CA CB	ALA ALA	350 350	27.668 28.972	-4.886 -4.094	23.148 23.209	1.00 1.00	28.46 28.12	
	ATOM	328	CP	ALA	350	27.468	-4.094 -5.461	23.209	1.00	28.75	
	ATOM	329	0	ALA	350	26.649	-4.958	20.983	1.00	30.90	
	ATOM	330	Ŋ	ASP	351	28.213	-6.509	21.420	1.00	27.20	•
	ATOM	331	CA	ASP	351	28.093	-7.143	20.112	1.00	29.75	
	ATOM	332	СВ	ASP	351	29.036	-8.345	20.010	1.00	34.16	
	ATOM	333	CG	ASP	351	30.498	-7.940	19.978	1.00	37.50	•
	MOTA	334	OD1	ASP	351	31.354	-8.831	20.148	1.00	37,55	
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ATOM	335	OD2	asp	351	30.789	-6.738	19.784	1.00	35.50	- •
ATOM	336	C	asp	351	26.661	-7.600	19.813	1.00	30,52	
ATOM	337	0	ASP	351	26 193	-7,458	18.687	1.00	27.77	
ATOM	338	N	ARG	352	25.968	-8.150	20.811	1.00	27.18	
ATOM	339	CA	ARG	352	24.593	-8.602	20.605	1.00	26.21	
ATOM	340	CB	ARG	352	24,148	-9.534	21.752	1.00	26.52	
ATOM	341	CG	arg	352	24.567	-10.991	21.532	1.00	31.03	
ATOM	342	CD	ARG	352	24.128	-11.911	22.666	1.00	29.80	
ATOM	343	NE	ARG	352		-11.675	23.879	1.00	30.44	
MOTA	344	CZ	ARG	352		-11.363	25.054	1.00		
ATOM	345	NH1	ARG	352		-11.251	25.177	1.00	31.18	
MOTA	346	NH2	ARG	352		-11.148	26.104	1.00	32.03	
ATOM	347	C	ARG	352	23.642	-7.411	20.502	1.00	27.16	
ATOM	348	O	ARG	352	22.702	-7.426	19.708	1.00		
ATOM	349	N	ĢĽU		23.896	-6.370	21.291	1.00		
ATOM	350	CA	GLU	353	23.045	-5.178	21.261	1.00		
ATOM	351	CB	GLU	353	23.461	-4.204	22.365	1.00		•
ATOM	352	CG	GLU	353	23.147	-4.669	23.771	1.00		
ATOM	353	CD	GLU	353	23.425	-3.587	24.795	1.00	30'.71	
ATOM	354	OE1	GLU	353	24.564	-3,534	25.304	1.00	30.09	
ATOM	355.	OE2	GLU	353	22.506	-2.789	25.085	1.00	30.53	
ATOM	356	C	GLU	353	23.131	-4.456	19,920	1.00	24.27	
ATOM	357	ō	GLU	353	22,169	-3.826	19,467	1.00	28.71	
ATOM	358	N	LEU	354	24.296	-4.540	19.293	1.00	26.61	-
ATOM	359	CA	LEU	354	24.522	-3.872	18.017	1.00	26.62	•
ATOM	360	CB	LEU	354	25.952	~4.121	17.543	1.00	26.36	
ATOM	361	CG	LEU	354	26.372	-3.257	16.351	1.00	29.24	
ATOM	362	CD1	LEU	354	26.243	-1.774	16.722	1.00	26.59	
ATOM	363	CD2	LEU	354	27.794	-3.607	15.962	1.00	28.88	
ATOM	364	C	LEU	354	23.559	-4.300	16.926	1.00	27.72	
ATOM	365	Ō	LEU	354	23.074	-3.475	16.152	1.00	24.00	
ATOM	366	N	VAL	355	23.291	-5.598	16.854		28.82	
ATOM	367	CA	VAL	355	22.386	-6.125	15.844	1.00	29.45	
ATOM	368	CB	VAL	355	22.259	-7.655	15.975	1.00	31.76	
ATOM	369	CG1	VAL	355	21.423	-8.205	14.834	1.00	33.55	
ATOM	370	CG2	VAL	355	23.649	-8.282	15,998	1.00	31,36	
ATOM	371	С	VAL	355	21.020	-5.499	16.035	1.00	27.71	
ATOM	372	0	VAL	355	20.382	-5,039	15.080		29.61	
ATOM	373	N	HIS	356	20.580	-5.473	17.288	1.00	27.76	
ATOM	374	CA	HIS	356	19.291	-4.906	17.627			
ATOM	375	CB	HIS	35.6	18.936	-5.231	19.079	1.00	31,12	
ATOM	376	CG	HIS	356	18.602	-6.675	19.307	1.00	35.93	
ATOM	377	CD2	HIS	356	19.352	-7.700	19.779	1.00	33.95	
ATOM	378	ND1	HIS	356	17.363	-7.208	19.018	1.00	36,62	
ATOM	379	CE1	HIS	356	17.364	-8.499	19,304	1.00	33.33	
ATOM	380	NE2	HIS	356	18.559	-8.823	19.767	1.00	32.16	
ATOM	381	C	HIS	356	19.300	-3.398	17.412	1.00	28.25	
ATOM	382	0	HIS	356	18.272	-2.812	17.100	1.00	28.99	
ATOM	383	N	MET	357	20.457	-2.765	17.574	1.00	25.31	
ATOM	384	CA	MET	357	20.526	-1.322	17.369	1.00	24.63	
ATOM	385	CB	MET	357	21.902	-0.789	17.766	1.00	23,61	
ATOM	386	CG	MET	357	22.011	0.736	17.699	1.00	24.66	
ATOM	387	SD	MET	357	23.732	1.290	17.859	1.00	27.30	
ATOM	388	CE	MET	357	24.140	0.672	19.514	1.00	23.62	
ATOM	389	Ç	MET	357	20.256	-1.011	15.898	1.00	24.83	
ATOM	390	Ö	MET	357	19.619	-0.003	15.569	1.00	26.78	
ATOM	391	N	ILE	358	20.757	-1.874	15.020	1.00	26.25	
ATOM	392	CA	ILE	358	20.553	-1.721	13.576	1.00	30.33	
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	MOTA	393	CB	ILE	358	21.204	-2.888	12.789	1.00	33.86	
	ATOM	394	CG2	ILE	358	20.759	-2,860	11.334	1.60	33.68	
	ATOM	395	CG1	ILE	358	22.728	-2.799	12.874	1.00	36.89	
	ATOM	396	CD1	ILE	358	23.299	-1.469	12.451	1.00	39.10	
	MOTA	397	С	ILE	358	19.055	-1.721	13.310	1,00	32.20	
	ATOM	398	0	ILE	358	18.519	-0.817	12.662	1.00	32.02	
•	ATOM	399	N	ASN	359	18.379	-2.748	13.814	1.00	33.12	
	ATOM	400	CA:	ASN	359	16.945	-2.861	13.638	1.00	33.35	
	ATOM	401	CB	ASN	359	16.434	-4.101	14.363	1.00	37.59	
	ATOM	402	CG	ASN	359	16.739	-5.374	13.627	1.00	44.38	
	ATOM	403	OD1	ASN	359	17.045	-5.329	12.437	1.00	47.35	
	ATOM	404	ND2	ASN	359	16.673	-6.508	14.320	1.00	42.48	
	ATOM	405	C	ASN	359	16.224	-1.634	14.149	1.00	32.74	
	ATOM	406	0	ASN	359	15.261	-1.163	13.530	1,00	31.39	
	ATOM	407	N	TRP	360	16.706	-1.104	15.264	1.00	27.92	
	ATOM	408	CA	TRP	360	16.102	0.087	15.842	1.00	29.47	
	ATOM	409	CB	TRP	360	16.703	0.347	17.228	1,00	27.66	
	ATOM	410	CG	TRP	360	16.522	1.747	17.707	1.00	30.40	
	ATOM	411	CD2	TRP	360	17.493	2.801	17.657	1.00	27.54	
	ATOM	412	CE2	TRP	360	16.888	3.954	18.204	1,00	29.42	
	ATOM	413	ÇE3	TRP	360	18.819	2.883	17.205	1.00	28.37	
	ATOM	414	CD1	TRP	360	15.399	2.284	18.264	1.00	27.75	
	ATOM	415	NE1	TRP	360	15.609	3.611	18.566	1.00	30.84	
	ATOM	416	CZ2	TRP	360	17.558	5.180	18.310	1.00	27.74	
	ATOM	417	CZ3	TRP	360	19.488	4,106	17.309	1.00	24.49	
	ATOM	418	CH2	TRP	360	18.853	5.232	17.858	1.00	25.09	
	ATOM	419	C	TRP	360	16.312	1.296	14.926	1.00	27.90	
	ATOM	420	0	TRP	360	15.360	2.002	14.581	1.00	28.83	
	ATOM	421	N	ALA	361	17.559	1.520	14.523	1.00	28.25	
	ATOM	422	CA	ALA	361	17.894	2.637	13.645	1.00	29.20	
	ATOM	423	CB	ALA	361	19.346	2.539	13.220	1.00	28.89	
	ATOM	424	C	ALA	361	17.006	2.685	12.403	1.00	31.08	
	ATOM	425	0	ALA	361	16.531	3.746	12.011	1.00	31.30	
	ATOM	426	N	LYS	362	16.795	1.526	11.783	1.00	30.93	
	ATOM	427	CA	LYS	362	15.981	1.443	10.581	1.00	34.15	
	ATOM	428	CB	LYS	362	16.012	0.016	10.023	1.00	33.67	
	ATOM	429	CG	LYS	362	17.252	-0.281	9.198	1.00	39.40	
	ATOM .	430	CD	LYS	362	17.547	-1.774	9.136	1.00	43.60	
	ATOM	431	CE	LYS	362	18.852	-2.046	8.389	1.00	47.06	
	ATOM	432	NZ	LYS	362	19.178	-3.507	8.288	1.00	50.34	
	ATOM	433	Ç	LYS	362	14.545	1.872	10.815	1.00	35.81	
	ATOM	434	0	LYS	362	13.821	2.168	9.859	1.00	37.95	
	ATOM	435	N	ARG	363	14.134	1.921	12.079	1.00	34.23	
	ATOM	436	CA	ARG	363	12.770	2.313	12.409	1.00	36.04	
	ATOM	437	CB	ARG	363	12,178	1.307	13.391	1.00	36.71	
	ATOM	438	CG	ARG	363	12.169	-0.110	12.827	1.00	40.36	
	ATOM	439	CD	ARG	363	11.468	-1.086	13.746	1,00	42.17	
	ATOM	440	NE	ARG	363	10.161	-0.586	14.158	1.00	45.19	
	ATOM	441	CZ	ARG	363	9,314	-1.262	14.929	1.00	49.41	
	ATOM	442	NH1	ARG	363	9,642	-2.467	15.374	1.00	48.02	
	ATOM	443	NH2	ARG	363	8,143	-0.729	15.261	1.00	51.54	
	ATOM	444	С	ARG	363	12.654	3.743	12.943	1.00	37.40	
	MOTA	445	0	ARG	363	11.567	4.199	13.303	1.00	38.22	
	MOTA	446	N	VAL	364	13.785	4.442	13.002	1.00	35.66	
	MOTA	447	CA	VAL	364	13.804	5.836	13.431	1.00	34.06	
	MOTA	448	CB	VAL	364	15.231	6.271	13.827	1.00	33.87	
	MOTA	449	CG1	VAL	364	15.293	7.779	13.995		31.08	
	MOTA	450	CG2	VAL	364	15.641	5.571	15.113	1.00	31.30	

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	ATOM	451	C	VAL	364	13.360	6.591	12.171	1.00	33.19	. ·
	MOTA	452	0	VAL	364	14.028	6.531	11.146	1.00	33.04	
	ATOM	453	N	PRO	365	12.225	7.310	12.234	1,00	34.69	
	ATOM	454	CD	PRO	365	11,359	7.492	13.413	1.00	34.19	
	atom	455	CA	PRO	365	11.724	8.050	11.069	1.00	35.96	1
	ATOM	456	CB	PRO	365	10.608	8.918	11.645	1.00	36.59	
	ATOM	457	CG	PRO	365	10,135	8.157	12.842	1.00	39.59	
	ATOM	458	C	PRO	365	12.756	8.878	10.321	1.00	37.19	
	ATOM	459	0	PRO	365	13.430	9.726	10.907	1.00	40.29	
	MOTA	460	N	GLY	366	12.878	8.624	9.023	1.00	34.78	
	ATOM	461	CA	GLY	366	13.816	9.371	8.212	1.00	33.54	
	ATOM	462	C	GLY	366	15.168	8.722	8.007	1,00	34.26	
	ATOM	463	0	GLY	366	15.858	9.035	7.034	1,00	37.15	
	atom	464	N	PHE	367	15.554	7.814	8.901	1.00	33,13	
	MOTA	465	CA	PHE	367	16.860	7.164	8.787	1.00	32.04	
	MOTA	466	CB	PHE	367	17.138	6.291	10.016	1.00	30,22	
	ATOM	467	CG	PHE	367	18.544	5.773	10.080	1.00	30.60	
	MOTA	468	CD1	PHE	367	18.827	4.446	9.751	1.00	31.94	
	ATOM	469	CD2	PHE	367	19.589	6.601	10.485	1.00	29,20	
	ATOM	470	CE1	PHE	367	20.133	3.950	9.828	1,00	28.30	
	MOTA	471	CE2	PHE	367	20.896	6.122	10.568	1.00	28.12	
	ATOM	472	CZ	PHE	367	21.171	4.791	10.240	1.00	25.41	
	ATOM	473	C	PHE	367	17.033	6.333	7.524	1.00	31.46	
	ATOM	474	0	PHE	367	18.073	6.405	6.883	1.00	32.30	-
	ATOM	475	N	VAL	368	16.027	5.541	7.165	1.00	35.20	
	ATOM	476	CA	VAL	368	16.123	4.718	5.959	1.00	38.98	
	ATOM	477	CB	VAL	368	15.076	3.584	5.945	1.00	40.61	
	ATOM	478	CG1	VAL	368	15.543	2.447	6.843	1.00	41.48	
	ATOM	479	CG2	VAL	368	13.717	4.113	6.390	1.00	41.60	
	ATOM	480	C	VAL	368 369	15.965	5.523	4.673	1.00	40.06	
	ATOM ATOM	481 482	о И	VAL ASP	368 369	16.156 15.608	4.992 6.798	3.579 4.798	1.00	41.66 38.65	
	ATOM	483	CA	ASP	369	15.465	7.646	3,621	1.00	37.15	
	ATOM	484	CB	ASP	369	14.700	8.929	3.954		39.89	
	ATOM	485	CG	ASP	369	13.254	8.671	4.302	1.00	45.59	
	ATOM	486	OD1	ASP	369	12.686	7.672	3.806	1.00	46.34	
	ATOM	487	OD2	ASP	369	12.681	9.472	5.074	1.00	49.13	
	ATOM	488	C	ASP	369	16.855	8.010	3.136		34.91	
	ATOM	489	Ō	ASP	369	17.038	8.431	1.995	1.00	34.25	
	ATOM	490	N	LEU	370	17.838	7.841	4.016	1.00	31.76	
	ATOM	491	CA	LEU	370	19.229	8.153	3.705	1.00	28.08	
	ATOM	492	CB	LEU	370	20.020	8.339	5.003	1.00	28.81	
	ATOM	493	CG	LEU	370	19.523	9.395	6.000	1.00	28.74	
	ATOM	494	CD1	LEU	370	20.315	9.275	7.299	1.00	30.81	
	MOTA	495	CD2	LEU	370	19.693	10.792	5.404	1.00	29.77	
	ATOM	496	С	LEU	370	19.884	7.043	2.893	1.00	31.25	
	ATOM	497	0	LEU	370	19.341	5.943	2.784	1.00	31.78	
	ATOM	498	N	THR	371	21.052	7.333	2.331	1.00	28.86	
	ATOM	499	CA	THR	371	21.793	6.336	1.569	1.00	32,90	
	ATOM	500	CB	THR	371	22.979	6.944	0.818	1.00	33,44	
	MOTA	501	OG1	THR	371	23.880	7.523	1.766	1.00	34.59	
•	ATOM	502	CG2	THR	371	22.514	8.002	-0.178	1.00	32.63	•
	ATOM	503	C	THR	371	22.373	5.315	2.539	1.00	35.31	
	ATOM	504	0	THR	371	22.536	5.591	3.733	1.00	31.27	
	ATOM	505	N	LEU	372	22.702	4.141	2.015	1.00	34.34	
	ATOM	506	CA	LEU	372	23.273	3.073	2.822	1.00	35.46	
	MOTA	507	CB	LEU	372	23.518	1.841	1.944	1.00	37.73	
	MOTA	508	CG	LEU	372	24.362	0.704	2.515	1.00	42.43	

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•	ATOM	509	CD1	LEU	372	23.690	0.145	3.757	1.00	45.60
	ATOM	510	CDS	LEU	372	24.534	-0.383	1.455	1.00	44.29
•	ATOM	511	C	LEU	372	24.587	3.548	3.444	1.00	36.95
	ATOM	512	õ	LEU	372	24,813	3.374	4.643	1,00	35.57
	ATOM	513	Й	HIS	373	25.442	4.159	2.627	1.00	35.68
•	ATOM	514	CA	HIS	373	26,729	4.656	3.099	1.00	36.60
	ATOM		CB	HIS	373 373	27.506	5.282	1.935	1.00	44.01
		515								50.69
	ATOM	516	CG	HIS	373	28.538	6.280	2.360	1.00	
	ATOM	517	CD2	HIS	373	29.857	6.138	2.636	1.00	54.69
	ATOM	518	ND1	HIS	373	28.246	7.613	2.561	1.00	53.77
	MOTA	519	CE1	HIS	373	29.339	8.248	2.945	1.00	57.09
	ATOM	520	NE2	HIS	373	30.331	7.376	2.999	1.00	57.23
·	MOTA	521	C	HIS	373	26.575	5.669	4.244	1.00	36.22
	MOTA	522	0	HIS	373	27.350	5.650	5.201	1.00	33.05
	ATOM	523	Ņ	ASP	374	25.580	6.549	4.148	1.00	32.03
	MOTA	524	CA	ASP	374	25.342	7.541	5.196	1.00	30.76
	ATOM	525	CB	ASP	374	24.354	8.603	4.713	1,00	30.12
	MOTA	526	CG	ASP	374	25.018	9.672	3.860	1.00	35.83
	MOTA	527	OD1	ASP	374	26.264	9.744	3.842	1.00	34.39
	ATOM	528	OD2	ASP	374	24.291	10.440	3.199	1,00	35.39
	MOTA	529	C	ASP	374	24.805	6.876	6.472	1.00	30.33
	MOTA	530	0	ASP	374	25.152	7.275	7.587	1.00	27.04
	ATOM	531	N	GLN	375	23.944	5.877	6.309	1.00	25.71
	MOTA	532	CA	GLN	375	23.403	5.157	7.454	1.00	26.68
	MOTA	533	CB	GLN	375	22.424	4.077	6.993	1.00	29.70
	MOTA	534	CG	GLN	375	21.101	4,616	6.484	1.00	29.16
	MOTA	535	CD	GLN	375	20.219	3.514	5.940	1.00	35.87
	ATOM	536	OE1	GLN	375	20.155	2.426	6.510	1.00	30.97
	ATOM	537	NE2	GLN	375	19.541	3.785	4.827	1.00	34.51
	ATOM	538	C	GLN	375	24.556	4.502	8.214	1.00	25.51
	ATOM	539	0	GLN	375	24.585	4.513	9.442	1.00	28.14
	ATOM	540	N	VAL	376	25.504	3.938	7.475	1.00	26.62
	MOTA	541	CA	VAL	376	26.659	3.281	8.071	1.00	29.24 29.66
	MOTA	542	CB	VAL	376	27.531	2.597	7.003 7.635		
	ATOM	543	CG1	VAL	376	28.812	2.071		1.00	28.29
	ATOM	544	CG2	VAL	376	26.745	1.469	6.341		29.90
	ATOM	545	C .	VAL	376	27.526	4.285	8.821	1.00	30,87
	ATOM	546	0	VAL	376	27.953	4.029	9.948	1.00	30.09
	MOTA	547	N	HIS	377	27.785		8.191 8.814	1.00	28,05 28.68
	MOTA	548	CA	HIS	377	28.602	6.457	7.864	1.00	30.26
	ATOM	549	CB	HIS	377	28.792	7.639			
	ATOM	550	CG	HIS	377	29.508	8.791	8.488	1.00	33.89
	ATOM	551 552	CD2	HIS	377	29.073	10.017	8.863	1.00	34.99
	ATOM	552	ND1	HIS	377		8.740	8.823	1.00	37.01
	ATOM	553	CE1	HIS	377	31.201	9.884	9.377	1.00	34.79
	MOTA	554	NE2	HIS	377	30.144	10.677	9.413	1.00	34.95
	MOTA	555	C	HIS	377	27.983	6.954	10.114	1,00	25.13
	ATOM	556	0	HIS	377	28.677	7.102	11.115	1.00	
	ATOM	557	N	LEU	378	26.678	7.206	10.107	1.00	
	ATOM	558	CA	LEU	378	26.015	7.695	11.315	1.00	
	ATOM	559	CB	LEU	378	24.542	8.001	11.027	1.00	
	ATOM	560	CG	LEU	378	24.291	9.180	10.073	1.00	
	ATOM	561	CD1	LEU	378	22.778	9.353	9.869	1.00	
	ATOM	562	CD2	LEU	378	24.911	10.458	10.642	1.00	30.08
	ATOM	563	C	LEU	378 .		6.695	12.459	1.00	28.55
	MOTA	564	0	LEU	378	26.379	7.075	13.605	1.00	
	ATOM	565	N	LEU	379	25.919	5.414	12,153	1.00	
	MOTA	566	CA	LEU	379	26.000	4.388	13.182	1.00	27.03

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•	ATOM	567	CB	LEU	379	25.401	3.073	12.667	1.00	28.53
	MOTA	568	CG	LEU	379	23.875	3.023	12.845	1.00	30.29
•	atom	569	CD1	LEU	379	23.248	1.943	11.963	1.00	33.04
	ATOM	570	CD2	LEU	379	23.563	2.759	14.312	1.00	29.45
	ATOM	571	Ç	LEU	379	27.430	4.176	13.670	1.00	27.18
	ATOM	572	O	LEU	379	27.653	3.979	14.866	1.00	25,95
	ATOM	573	N	GLU	380	28.402	4,236	12.762	1,00	25.86
	ATOM	574	CA	GLU	380	29.786	4.054	13.173	1.00	27.58
	MOTA	575	CB	GLU	380	30.730	4.036	11.968	1.00	30.36
	ATOM	576	CG	GLU	380	32.172	3.785	12.380	1.00	37.98
	ATOM	577	CD	GLU	380	33.080	3.471	11.210	1.00	45.23
	ATOM	578	OE1	GLU	380	32.869	4.048	10.120	1.00	42.99
	ATOM	579	OE2	GLU	380	34.004	2.646	11.386	1.00	45.79
	ATOM	580	C	GLU	380	30,218	5.159	14.133	1.00	27.50
	MOTA	581	0	GLU	380	31.056	4.937	15.010	1.00	26.67
	MOTA	582	N	ACYS	381	29.637	6.339	13.965	0.75	24.89
	ATOM	583	N	BCYS	381	29.645	6.352	13.980	6.25	25,79
	ATOM	584	CA	ACYS	381	29.969	7.466	14.826	0.75	24.12
	ATOM	585	CA	BCYS	381	29.993	7.481	14.847	0,25	24.86
	MOTA	586	CB	ACYS	381	29.621	8.781	14,122	0.75	25.96
	ATOM	587	CB	BCYS	381	29,766	8.814	14:115	0.25	25.62
	MOTA	588	SG	ACYS	381	30.698	9.192	12.732	0.75	31.63
	ATOM	589	SG	BCYS	381	30.227	10.312	15.059	0.25	25.40
	ATOM	590	C	ACYS	381	29.237	7.422	16.162	0.75	22.07
	ATOM	591	С	BCYS	381	29.211		16.159	0.25	23.97
	ATOM	592	0	ACYS	381	29.812	7.730	17.206	0.75	21.97
	ATOM ATOM	593 594	0	BCYS	381	29.724	7.940	17.187	0,25	23.99
	ATOM	594 595	n CA	ALA ALA	382 382	27.974 27.140	7.012 7.015	16.128 17.318	1.00	23.41
	ATOM	596	CB	ALA	382	27.140	7.587	16.948	1.00	22.83 25.50
	ATOM	597	C	ALA	382	26.913	7.567 5.755	18,131	1.00	25.39 25.39
	ATOM	598	ō	ALA	382	26.374	5.837	19.234	1.00	23.09
	ATOM	599	N	TRP	383	27.311	4.602	17.615	1.00	25.98
	ATOM	600	CA	TRP	383	27.026	3.354	18.318		23.80
	ATOM	601	CB	TRP	383	27.669	2,172	17.580	1.00	22.52
	MOTA	602	CG .	TRP	383	29.130	2.054	17,762	1.00	
	ATOM	603	CD2	TRP	383	29.797	1.347	18.803	1.00	27.31
	MOTA	604	CE2	TRP	383	31.182	1.484	18.579	1.00	28,24
	MOTA	605	CE3	TRP	383	29.360	0.609	19.912	1,00	27.37
	MOTA	606	CD1	TRP	383	30.102	2.578	16.965	1.00	24.58
	ATOM	607	NE1	TRP	383	31.342	2.239	17.446	1.00	27.35
	ATOM	608	CZ2	TRP	383	32.133	0.909	19.420	1.00	28.76
	MOTA	609	CZ3	TRP	383	30.305	0.039	20.745	1.00	28.09
	ATOM	610	CH2	TRP	383	31.674	0.191	20.496	1.00	29.77
	MOTA	611	C	TRP	383	27.356	3.309	19.802	1.00	23.54
	MOTA	612	0	TRP	383	26.526	2.866	20.584	1.00	22.90
	ATOM ATOM	613 614	N Cla	LEU	384	28.542	3.765	20.211	1.00	20.37
•	ATOM	615	CA CB	LEU LEU	384	28.864	3.713	21.640	1.00	22.41
	ATOM	616	CG	LEU	384 384	30,369 30.824	3.890 3.645	21.883	1.00	24.98
	MOTA	617	CD1	LEU	384	30.024	2.305	23.336 23.853	1.00	27.33 29.71
	ATOM	618	CD2	LEU	384	32.336	3,648	23.398	1.00	26.07
	ATOM	619	C	LEU	384	28.075	4.732	22.453	1.00	19.44
	ATOM	620		LEU	384	27.706	4.458	23.595	1.00	23.24
	ATOM	621	N	GLU	385	27.807	5.909	21.885	1.00	20.80
	ATOM	622	CA	GLU	385	27.011	6.895	22.612	1.00	21.32
	ATOM	623	CB	GLU	385	26.861	8.177	21.797	1.00	21.91
	MOTA	624	CG	GLU	385	28.115	9.020	21.705	1.00	21.61

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ATOM	625	CD	GLU	385	27,882	10.256	20.860	1.00	29.53
ATOM	626	oe1	GLU	385	27.374	11.256	21.401	1.00	30.54
MOTA	627	OE2	GLU	385	28.188	10.219	19.658	1.00	29.97
MOTA	628	C	GLU	385	25.616	6.292	22.836	1.00	22.26
MOTA	629	0	GLU	385	25.022	6.438	23.902	1.00	22.26
ATOM	630	Ŋ	ILE	386	25.101	5.617	21.812	1,00	22.03
MOTA	631	CA	ILE	386	23.779	4.995	21.896	1.00	22,74
ATOM	632	CB	ILE	386	23.328	4.455	20.498	1,00	22.88
atom	633	CG2	ILE	386	22.009	3.647	20.618	1.00	23.85
MOTA	634	CG1	ILE	386	23.085	5.651	19.561	1.00	25.05
ATOM	635	CD1	ILE	386	22.994	5.297	18.078	1.00	26.42
ATOM	636	C	ILE	386	23.766	3.897	22,961	1.00	22,50
ATOM	637	0	ILE	386	22.823	3.818	23.746	1.00	24.75
ATOM	638	N	LEU	387	24.810	3.071	23.020	1.00	22.25
ATOM	639	CA	Leu	387	24.868	2.030	24.051	1.00	22.95
MOTA	640	CB	LEU	387	26,096	1.132	23.864	1.00	24.61
ATOM	641	CG	LEU	387	26.070	0.194	22.654	1,00	23,21
ATOM	642	CD1	LEU	387	27.297	-0.709	22.705	1.00	25.36
ATOM	643	CD2	LEU	387	24.791	-0.631		1.00	26.29
ATOM	644	C	LEU	387	24.944	2.660	25.438	1.00	26.22
ATOM	645	0	LEU	387	24.287	2.204	26.386	1.00	23.55
ATOM	646	N	MET	388	25.751	3.713	25.554	1.00	
MOTA	647	CA	MET	388	25.924	4.385	26.835	1.00	24.26
MOTA	648	CB	MET	388	27.088	5.378	26.761	1.00	23.87
ATOM	649	CG	MET	388	28.440	4.722	26.743	1,00	24.08
MOTA	650	SD	MET	388	29.726	5.992	26.736	1.00	27.70
ATOM	651	CE	MET	388	31.139	5.041	27.078	1.00	21.74
MOTA	652	C	MET	388	24.660	5.094	27.321	1.00	23.33
ATOM	653	0	MET	388	24.341	5.026	28.505	1.00	25.58 24.62
ATOM	654 655	N	ILE	389	23,935	5.775	26.436	1.00	
ATOM	655 656	CA CB	ILE	389 389	22.729 22.132	7.439	26.905	1,00 1.00	24.03 27.01
atom atom	657	CG2	ILE	389	22.132	7.439 6,705	25.852 24.706	1.00	23,98
ATOM	658	CG1	ILE	389	21.413	8,402	26.584	1.00	25.49
ATOM	659	· CD1	ILE	389	20,431	9.383	25.683	1.00	25.45
ATOM	660	G	ILE	389	21.694	5.401	27.349	1.00	26.54
ATOM	661	Ö	ILE	389	20.938	5.631	28.294	1.00	22,58
ATOM	662	N	GLY	390	21.679	4,247	26.687	1.00	27.14
ATOM	663	CA		390		3.201			
ATOM	664	c	GLY			2.719			29.67
ATOM	665	ō	GLY		20.275				
ATOM	666	N		391	22.433			1,00	26.06
ATOM	667	CA	LEU	391	22.955		29.983	1.00	29.23
ATOM	668	CB	LEU	391	24.476		29.899	1.00	28.37
ATOM	669	CG	LEU	391	25.206		31.210	1.00	30.81
MOTA	670	CD1	LEU	391	24.717	0.332	31.793	1.00	25.73
ATOM	671	CD2	LEU		26.709	1.619	30.958	1.00	25.25
ATOM	672	C	LEU	391	22.603	3.070	31.104	1.00	30.84
MOTA	673	0	LEU	391	22.156		32.186	1.00	29.19
ATOM	674	N	VAL	392	22.817	4.355	30.850	1,00	28.91
ATOM	675	CA	VAL	392	22.506	5.369	31.851	1.00	28.86
ATOM	676	СВ	VAL	392	22.923	6.770	31.353	1.00	30.08
ATOM	677	CG1	VAL	392	22.329	7.854	32.237	1.00	32.32
ATOM	678	CG2	VAL	392	24.442	6.870	31.372	1.00	28.52
MOTA	679	С	VAL	392	21.013		32.165	1.00	28,42
MOTA	680	0	VAL		20.621	5.345	33.327	1.00	30.38
MOTA	681	N	TRP				31.125		28.23
MOTA	682	CA ·	TRP	393	18.732	5.186	31.280	1,00	29.70

MOTA	683	CB	TRP	393	18.066	5,046	29.906	1.00	30.09
atom	684	CG	TRP	393	16.605	4.670	29.953	1.00	33.50
MOTA	685	CD2	TRP	393	15.516	5.499	30.369	1.00	31.76
ATOM	686	CE2	TRP	393	14.336	4.725	30.264	1.00	38.11
MOTA	687	CE3	TRP	393	15.419	6.821	30.824	1.00	32.56
ATOM	688	CD1	TRP	393	16.057	3.459	29.618	1.00	34.31
atom	689	NE1	TRP	393	14.696	3.486	29.801	1,00	34.36
MOTA	690	CZ2	TRP	393	13.073	5.233	30.597	1.00	37.93
ATOM	691	CZ3	TRP	393	14.162	7.326	31.155	1.00	35.24
MOTA	692	CH2	TRP	393	13.007	6.531	31.039	1.00	37.77
MOTA	693	C	TRP	393	18.256	4.051	32.191	1.00	32.07
MOTA	694	0	TRP	393	17.460	4.275	33.109	1,00	32.12
MOTA	695	N	ARG	394	18.738	2,837	31.957	1.00	31.90
ATOM	696	CA	ARG	394	18.288	1.729	32.787	1.00	36.63
MOTA	697	CB	ARG	394	18.492	0.389	32.065	1.00	36.41
ATOM	698	CG	ARG	394	19.914	0.009	31.764	1.00	36.50
atom	699	CD	ARG	394	19.929	-1.132	30.748	1,00	36.34
atom	700	NE	ARG	394	21.282	-1.561	30.417	1.00	33.97
ATOM	701	CZ	ARG	394	21.864	-1.350	29.239	1.00	31.61
MOTA	702	NHI	ARG	394	21.208	-0.715	28.281	1.00	32.42
ATOM	703	NH2	ARG	394	23.098	-1.784	29.022	1.00	29.81
MOTA	704	C	ARG	394	18.911	1.697	34.180	1.00	36.69
MOTA	705	0	ARG	394	18.445	0.966	35.048	1.00	37.07
MOTA	706	N	SER	395	19,954	2.492	34,395	1,00	33.63
ATOM	707	CA	SER	395	20.603	2.564	35.701	1.00	35.69
ATOM	708	CB	SER	395	22.112	2.784	35.540	1.00	32.94
ATOM	709	OG	SER	395	22.696	1.811	34.688	1.00	32.37
ATOM	710	C	SER	395	20.010	3.713	36.531	1.00	36.44
ATOM	711	0	SER	395	20.389	3.916	37.687	1.00	38.68
ATOM	712	N	MET	396	19.076	4.449	35.937	1.00	36.46
ATOM	713	CA	MET	396	18.431	5.588	36.589	1.00	43.08
ATOM	714	CB	MET	396	17.275	6.104	35.725	1.00	43.87
ATOM	715	CG SD	MET	396 396	17.481	7.507	35.176	1.00	46.18 49.58
ATOM ATOM	716 717	CE	MET MET	396 396	15.962 14.988	8.278 8.298	34.581 36.065	1,00 1.00	53.58
ATOM	718	Ç	MET	396	17.906	5.303	37.992	1.00	46.18
MOTA	719	Ö	MET	396	18.125	6.089	38.913	1.00	46.34
ATOM	720	И	GLU	397	17.215	4.180	38.152	1.00	49.39
ATOM	721	CA	GLU	397	16,645		39,444		52.12
ATOM	722	CB	GLU	397	15.296				55.34
ATOM	723	CG	GLU	397	14.166	4.073		1.00	58.86
ATOM	724	CD	GLU	397	13.195	3.448	37.891	1.00	63.28
ATOM	725	OE1	GLÜ	397	13.660	2.925	36.854	1.00	64.68
ATOM	726	OE2	GLU	397	11.972	3.475	38.155	1.00	65.39
ATOM	727	C	GLU	397	17.548	2,933	40.283	1.00	52.75
ATOM	728	Q	GLU	397	17.071	2.187	41.139	1.00	53.96
ATOM	729	N	HIS	398	18.851	3.014	40.040	1,00	50.25
ATOM	730	CA	HIS	398	19.813	2.220	40.792	1.00	49.34
ATOM	731	CB	HIS	398	20.271	1.018	39.963	1.00	52.04
ATOM	732	CĢ	HIS	398	19.187	0.017	39.721	1.00	53.95
ATOM	733	CD2	HIS	398	18.750	-1.022	40.472	1.00	53.92
ATOM	734	ND1	HIS	398	18.374	0.054	38.608	1.00	55.91
ATOM	735	CE1	HIS	398	17.482	-0.917	38.685	1.00	55.53
ATOM	736	NE2	HIS	398	17.688	-1.585	39.806	1.00	55.81
ATOM	737	C	HIS	398	20.999	3.084	41.196	1.00	47.44
ATOM	738	ō	HIS	398	22.121	2.887	40.730	1.00	44.91
ATOM	739	N	PRO	399	20.755	4.049	42.096	1.00	46.45
ATOM	740	CD	PRO	399	19.443	4.300	42.721	1.00	47.27

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ATOM	741	CA	PRO	399	21.785	4.968	42.586	1.00	45.35
MOTA	742	CB	Pro	399	21,127	5.631	43.793	1.00	47.40
MOTA	743	CG	PRO	399	19.660	5.561	43.504	1.00	47.72
MOTA	744	С	PRO	399	23.086	4.270	42.958	1.00	44.70
atom	745	0	PRO	399	23.078	3.233	43.627	1,00	46.46
MOTA	746	N	GLY	400	24.202	4.840	42.509	1.00	41.57
MOTA	747	CA	GLY	400	25.506	4.281	42.813	1.00	39.84
ATOM	748	C	GLY	400	25.907	3.047	42,022	1.00	37.85
MOTA	749	0	GLY	400	27.027	2.560	42,176	1.00	40.48
ATOM	750	N	LYS	401	25.012	2.537	41.180	1.00	36.39
ATOM	751	CA	LYS	401	25.315	1.344	40.390	1.00	34.47
ATOM	752	CB	LYS	401	24.562	0.130	40.947	1.00	36.12
MOTA	753	CG	LYS	401	24.633	-0.007	42.466	1.00	39.30
ATOM	754	CD	LYS	401	24.288	-1.429	42.903	1.00	44.38
ATOM	755	CE	LYS	401	24.459	-1.605	44.408	1.00	46.68
ATOM	756	NZ	LYS	401	24.968	-2.969	44.747	1.00	53.37
ATOM	757	C	LYS	401	24.969	1.485	38,911	1.00	32.34
ATOM	758	0	LYS	401	24.141	2.308	38,531	1.00	31.16
ATOM	759	N	LEU	402	25.612	0.663	38.086	1.00	28.52
ATOM	760	CA	LEU	402	25.358	0.658	36.648	1.00	29.06
ATOM	761	CB	LEU	402	26,661	0.847	35.867	1.00	29.26
ATOM	762	CG	LEU	402	27.278	2.242	36,029	1.00	24.67
ATOM	763	CD1	LEU	402	28.623	2.310	35.310	1.00	27.47
ATOM	764	CD2	LEU	402	26.312	3.277	35.482	1.00	24.93
ATOM	765	С	LEU	402	24.755	-0.686	36.292	1.00	30.43
ATOM	766	0	LEU	402	25.367	-1.727	36,535	1.00	31.36
ATOM	767	N	LEU	403	23.552	-0.658	35.735	1.00	31.07
MOTA	768	CA	LEU	403	22.873	-1.880	35.335	1.00	32.96
MOTA	769	CB	LEU	403	21.361	-1.693	35.434	1.00	33.86
ATOM	770	CG	LEU	403	20.551	-2.991	35,415	1.00	39.29
ATOM	771	CD1	LEU	403	20.584	-3.637	36.806	1.00	43.62
ATOM	772	CD2	LEU	403	19.128	-2.689	34.998	1.00	41.32
ATOM	773	С	LEU	403	23.255	-2.218	33.899	1.00	30.06
ATOM	774	0	LEU	403	22.543	-1.870	32.956	1.00	31.63
ATOM	775	N.	PHE	404	24.383	-2.893	33.733	1.00	29.19
ATOM	776	CA	PHE	404	24.834	-3.256	32.403	1.00	28.93
ATOM	777	CB	PHE	404	26.201	-3.929	32.493	1.00	30.05
ATOM	778	CG	PHE	404	27.305	-2.998	32.926	1.00	30.78
ATOM	779	CD1	PHE	404	27.794	-3.033	34.228	1.00	32.91
ATOM	780	CD2	PHE	404	27.848		32.030	1.00	32.75
ATOM	781	CE1	PHE	404	28.816	-2.160	34.638	1.00	34.73
ATOM	782	CE3	PHE	404	28.864	-1.205	32.423	1.00	30.68
ATOM	783	CZ	PHE	404	29.350	-1.242	33.727	1.00	31.43
ATOM	784	C	PHE	404	23.809	-4.181	31.756	1:00	30.80
ATOM	785	0	PHE	404	23.625	-4.175	30.538	1.00	28.09
ATOM	786	N	ALA	405	23.138	-4.967	32.594	1.00	30.25
ATOM	787	CA	ALA	405	22.104	-5.910	32.163	1.00	29.78
ATOM	788	CB	ALA	405	22.745	-7.172	31.598	1.00	29.97
ATOM	789	C	ALA	405	21.309	-6.237	33.429	1.00	31.95
ATOM	790	0	ALA	405		-5.995	34,535	1.00	32.36
ATOM	791	N	PRO	406	20.088	-6.779	33,288	1.00	34.40
ATOM	792	CD	PRO	406	19.356	-7.102	32.053	1.00	35.81
ATOM	793	CA	PRO	406	19.303	-7.101	34.490	1.00	36.41
ATOM	794	CB	PRO	406	17.985	-7.654	33.935	1.00	35.38
ATOM	795	CG	PRO	406	17.922	-7.153	32.519	1,00	36.49
ATOM	796 ⁻	C	PRO	406	19.997	-8.084	35.433	1.00	37.32
ATOM	797	0	PRO	406	19.698	-8.112	36.626	1.00	38.34
ATOM	798	N	ASN	407	20.924	-8.877	34.902	1.00	36.69

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	ATOM	799	ÇĄ	ASN	407	21.652	-9.847	35.712	1,00	38,85	
	ATOM	800	CB	asn	407	21.582	-11.243	35.083	1.66	39.69	
	ATOM	801	CG	asn	407	22.232	-11.306	33.711	1.00	44.10	
	ATOM	802	OD1	asn	407	22.345	-10.296	33,009	1.00	37.78	
	ATOM	803	NDS	asn	407	22.660	-12.503	33.319	1.00	45.74	
	ATOM	804	C	asn	407	23.100	-9.435	35.874	1,00	38.12	
	ATOM	805	0	ASN	407	23.965	-10.256	36.178	1.00	39.81	
	ATOM	806	N	LEU	408	23.364	-8.149	35,671	1.00	37.80	
	ATOM	807	CA	LEU	408	24.713	-7.631	35.799	1.60	36.89	
	ATOM	808	CB	LEU	408	25.449	-7.720	34.459	1.00	36.09	
	ATOM	809	CG	LEU	408	26.972	-7.609	34.550	1.00	35,08	
	ATOM	810	CD1	LEU	408	27.525	-8.775	35.354	1.00	39.15 36.85	
	ATOM ATOM	811 812	CD2	LEU LEU	408 408	27.578 24.670	-7.587 -6.187	33.158 36.286	1.00	40.55	
	ATOM	813	0	LEU	408	24.646	-5.248	35.491		38.29	
	AŢOM	814	N .	LEU	409	24.644	-6.034	37.607	1.00	39.50	
	ATOM	815	CA	LEU	409	24.606	-4.733	38.257	1,00	41.00	
	ATOM	816	CB	LEU	409	23.392	-4.658	39.184	1.00	43.69	
	ATOM	817	CG	LEU	409	23.164	-3.382	39.993	1.00	47.35	
	ATOM	818	CD1	LEU	409	22.848	-2.233	39.058	1.00	47.09	
	ATOM	819	CD2	LEU	409	22.014	-3.603	40.976	1.00	49.38	
	ATOM	820	С	LEU	409	25.894	-4.566	39.060	1.00	41.80	
	ATOM	821	0	LEU	409	26.178	-5.358	39.960	1.00	41.00	
	ATOM	822	N	LEU	410	26.676	-3,544	38.727	1.00	39.23	-
	ATOM	823	CA	LEU	410	27.931	-3.296 ·	39.423	1,00	40.45	
	ATOM	824	CB	LEU	410	29.106	-3.354	38.442	1.00	41.59	
	ATOM	825	CG	LEU	410	29.457	-4.660	37.716	1.00	44.87	
•	ATOM	826	CD1	LEU	410	30.972	-4.728	37.554	1.00	45.41	
	ATOM	827	CD2	LEU	410	28.949	-5.872	38.484	1.00	47.02	
	ATOM	828 829	C	LEU	410	27.946 27.361	-1,944 -0.970	40.132 39.652	1,00 1,00	40.67 40.22	
	ATOM ATOM	830	И	ASP	410 411	28.610	-1.890	41,281	1.00	41.57	
	ATOM	831	CA	ASP	411	28.717	-0.640	42.025	1.00	42.69	
	ATOM	832		ASP	411	28.490	-0.874	43.528	1.00	44.44	•
	ATOM	833	CG	ASP	411	29.655	-1.578	44.210	1.00	46.70	
	ATOM	834	OD1	ASP	411	29.537	-1.849	45.426	1.00	51.44	
	ATOM	835	OD2	ASP	411	30.680	-1.861	43.553	1,00	48.79	
•	ATOM	836	C	ASP	411.	30.088	-0.016	41.779	1,00	43.70	
	ATOM	837	· O	ASP	411	30.933	-0.610	41.107	1.00	38.48	
	MOTA	838	N	ARG	412	30.295	1.181	42.321	1,00	46.78	
	ATOM	839	CA	ARG	412	31.554	1.905	42.171	1,00	49.97	
	ATOM	840	CB	ARG	412	31.601	3.090	43.138	1.00	51.28	
	ATOM	841	CG	ARG	412	30.971	4.364	42.614	1.00	54.77	
	ATOM	842	CD	ARG	412	31.644	5.580	43.219	1.00	54.61	
	ATOM	843	NE ·	ARG	412	33.071	5.615	42.912	1.00	56.53	
	ATOM	844	CZ	ARG	412	33.827	6.708	42.985	1.00 1.00	61.90 63.48	
	ATOM ATOM	845 846	NH1 NH2	ARG ARG	412 412	33.291 35.120	7.866 6.645	43.356 42.682	1.00	61.21	,
	ATOM	847	C	ARG ARG	412	32.771	1,026	42.429	1.00	50.29	
	ATOM	848	0	ARG	412	33.628	0.866	41.561	1.00	51.02	
	ATOM	849	N	ASN	413	32.844	0.469	43.633	1.00	51.94	
	ATOM	850	CA	ASN	413	33.969	-0.375	44.021	1,00	53.15	
	ATOM	851	CB	ASN	413	33.719	-0.980	45.403	1.00	55.88	
	ATOM	852	CG	ASN	413	33.654	0.073	46.496	1.00	57.99	
	MOTA	853	OD1	ASN	413	33.697	1.276	46.223	1.00	58.27	
	ATOM	854	ND2	ASN	413	33.551	-0.375	47,742	1.00	57.90	
	MOTA	855	C	ASN	413	34.235	-1.480	43.013	1.00	53.95	
	MOTA	856	0	ASN	413	35.386	-1.743	42.659	1.00	53.67	

MOTA	857	N	GLN	414	33.173	-2.129	42.547	1.00	55.33
MOTA	858	CA	GLN	414	33.326	-3.198	41.573	1.00	55.42
ATOM	859	CB	GLN	414	31.991	-3.904	41.343	1.00	55.44
MOTA	860	CG	GLN	414	31.645	-4.933	42.391	1.00	56.07
ATOM	861	CD	GLN	414	30.203	-5.376	42.336	1.00	57.40
ATOM	862	OE1	GLN	414	29.296	-4.536	42.402	1.00	60.22
ATOM	863	NES	GLN	414	29.973	-6.664	42.199	1.00	57.27
ATOM	864	C	GLN	414	33.850	-2.630	40.259	1.00	55.51
ATOM	865	o	GLN	414	34.654	-3.265	39.578	1.00	56.16
ATOM	866	N	GLY	415	33.398	-1.430	39.910	1.00	57.07
ATOM	867	CA	GLY	415	33.849	-0.806	38.680	1.00	58.51
ATOM	868	C	GLY	415	35.350	-0.582	38.689	1.00	61.10
ATOM	869	0	GLY	415	36.023	-0.748	37.671	1.00	59.47
ATOM	870	N	LYS	416	35.877	-0.211	39.851	1.00	62.77
ATOM	871	CA	LYS	416	37.305	0.041	40.011	1.00	65.49
ATOM	872	CB	LYS	416	37.634	0.262	41.491	1.00	66.04
ATOM	873	CG	LYS	416	38.121	1.663	41.823	1.00	68.71
ATOM	874	CD	LYS	416	37.078	2.439	42.613	1.00	70.98
ATOM	875	CE	LYS	416	37.404	2.448	44.100	1.00	71.84
ATOM	876	NZ	LYS	416	36.225	2.079	44.933	1.00	71.95
ATOM	877	Ç	LYS	416	38.159	-1.105	39.472	1.00	66.41
ATOM	878	0	LYS	416	39.361	-0.946	39.269	1.00	67.15
ATOM	879	N	CYS	417	37.538	-2.257	39.238	1.00	67,33
ATOM	880	CA	CYS	417	38.270	-3.414	38.741	1.00	68.16
ATOM	881	CB	CYS	417	37.951	-4.642	39.602	1.00	70.88
MOTA	882	SG	CYS	417	38.592	-4.549	41.301	1.00	76.09
MOTA	883	C	CYS	417	38.015	-3.736	37.270	1.00	67.54
MOTA	884	0	CYS	417	38.632	-4,653	36.720	1.00	68.48
ATOM	885	N	VAL	418	37.111	-2.994	36.631	1.00	64.67
ATOM	886	CA	VAL	418	36.817	-3.226	35.218	1.00	59.97
ATOM	887	CB	VAL	418	35.326	-2.917	34.879	1.00	59.60
ATOM	888	CG1	VAL	418	34.971	-1.503	35.284	1.00	59.13
MOTA	889	CG2	VAL	418	35.072	-3121	33,391	1.00	54.85
MOTA	890	C.	VAL	418	37.739	-2.362	34.355	1.00	58.37
ATOM	891	0	VAL	418	37.799	-1.140	34,512	1.00	55.44
ATOM	892	N	GLU	419	38.463	-3.012	33.450	1.00	56.02
MOTA	893	CA	GLU	419	39.403	-2.328	32,570	1.00	54.28
ATOM	894	CB	GLU	419	40.149		31.710		57.57
MOTA	895	CG	GLU	419	39,385	-3.779	30.468	1.00	60.87
ATOM	896	CD	GLU .	419	40.179	-4.722	29.584	1.00	63.34
MOTA	897	OE1	GLU	419	40.432	-5.870	30.011	1.00	64.90
ATOM	898	OE2	GLU	419	40.546	-4.313	28.462	1.00	63.18
ATOM	899	C	GLU	419	38.761	-1.281	31.662	1.00	52.05
MOTA	900	0	GLU	419	37.665	-1.481	31.131	1.00	49.82
ATOM	901	N	GLY	420	39.465	-0.165	31.491	1.00	49.45
ATOM	902	CA	GLY	420	38.983	0.908	30.642	1.00	46.22
ATOM	903	C	GLY	420	37.895	1.767	31.254	1.00	44.55
ATOM	904	0	GLY	420	37.417	2.705	30.619	1.00	42,08
ATOM	905	N	MET	421	37.503	1.471	32.488	1.00	43.41
ATOM	906	CA	MET	421	36.449	2.248	33,123	1.00	42.48
ATOM	907	CB	MET	421	35.306	1.327	33.554	1.00	42.34
ATOM	908	CG	MET	421	34.590	0.635	32.396	1.00	38.22
ATOM	909	SD	MET	421	32.927	0.102	32.843	1.00	38.56
ATOM	910	CE	MET	421	32,003	1.699	32.766	1.00	35.54
ATOM	911	C	MET	421	36.923	3.059	34,312	1.00	41.64
ATOM	912	0	MET	421	36.113	3.512	35.111	1.00	39.77
ATOM	913	N	VAL	422	38.232	3.256	34,430	1.00	43.42
ATOM	914	CA	VAL	422	38.757	^ 019	35.557	1.00	44.79

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	ATOM	915	CB	VAL	422	40.285	4.248	35.433	1.00	46.54
	ATOM	916	CG1	VAL	422	40.595	5.086	34.206	1.00	48.25
	ATOM	917	CG2	VAL	422	40.813	4.920	36.696	1,00	46.24
	ATOM	918	C	VAL	422	38.056	5.372	35,689	1,00	44.09
	ATOM	919	0	VAL	422	37.691	5.783	36.783	1.00	44.12
	ATOM	920	N	GLU	423	37.846	6.055	34.570	1.00	42.07
	ATOM	921	CA	GLU	423	37.192	7.356	34.616	1,00	40.24
	mota Mota	922 923	CB CG	GLU GLU	423 423	37.909 39.411	8.338 8.467	33,684 33.893	1.00 1.00	44.02 50.04
	ATOM	924	CD	GLU	423	40.096	9.158	32.719	1.00	55,64
	ATOM	925	OE1	GLU	423	39.539	10.156	32.205	1.00	56.66
	ATOM	926	OE2	GLU	423	41.188	8.703	32.306	1.00	58,02
	ATOM	927	C	GLU	423	35.704	7.337	34,250	1.00	35.77
	ATOM	928	0	GLU	423	34.881	7.955	34.919	1,00	33.20
	MOTA	929	N	ILE	424	35.345	6.617	33.197	1,00	36.16
	MOTA	930	CA	ILE	424	33.949	6.643	32.771	1.00	31.63
	MOTA	931	CB	ILE	424	33.803	6.087	31.347	1.00	33.58
	ATOM	932	CG2	ILE	424	34.639	6.936	30.395	1.00	33.48
	ATOM ATOM	933	CG1 CD1	ILE	424	34.204	4.617	31.296	1.00	34.46
	ATOM	934 935	CDT	ILE ILE	424 424	33.857 32.890	3.955 6.035	29.978 33.685	1.00	34.67 28,89
	ATOM	936	0	ILE	424	31.729	6.443	33.632	1.00	26.49
•	ATOM	937	N	PHE	425	33.261	5.091	34.542	1.00	29.26
•	ATOM	938	CA	PHE	425	32.257	4.520	35.447	1.00	29.87
	AŢOM	939	ĊВ	PHE	425	32.903	_. 3.529	36.423	1.00	31.26
	MOTA	940	CG	PHE	425	31.948	2.496	36.959	1.00	32.17
	ATOM	941	CD1	PHE	425	31.124	2.783	38.048	1.00	33.70
	ATOM	942	CD2	PHE	425	31.881	1.230	36.381	1.00	30.64
	ATOM	943	CE1 CE2	PHE	425 425	30.244	1.814	38.563	1.00	32,60 31.55
1	ATOM ATOM	944 945	CEZ	PHE PHE	425 425	31.010 30.189	0.256 0.549	36,881 37.973	1.00	33.34
	ATOM	946	C	PHE	425	31.594	5.649	36.240	1.00	30.17
	MOTA	947	0	PHE	425	30.368	5.774	36.276	1.00	26.71
	ATOM	948	N	asp	426	32.415	6.483	36.870	1.00	29.45
	ATOM	949	CA	ASP	426	31.893	7.587	37.661	1.00	32.29
	ATOM	950	CB	ASP	426	33.031	8.291	38,401	1,00	33.49
	ATOM	951	CG	ASP	426	33.455	7.546	39,655	1.00	39.42
	MOTA	952	OD1	ASP	426	32.767	6,574	40.038	1.00	38.35
	ATOM ATOM	953 954	OD2 C	ASP ASP	426 426	34.480 31.133	7.934 8.592	40.256 36.806	1.00	39.58 29.02
	ATOM	955	0	ASP	426	30.154	9,175	37.257	1.00	31.34
	ATOM	956	N	MET	427	31.585	8.797	35.572	1.00	30.69
	ATOM	957	CA	MET	427	30.919	9.736	34.675	1.00	28.63
	ATOM	958	CB	MET	427	31.744	9.912	33.407	1.00	26.83
	ATOM	959	CG	MET	427	33.032	10.680	33.608	1.00	31.41
	MOTA	960	SD	MET	427	33.962	10.783	32.077	1.00	34.87
	ATOM	961	CE	MET	427	35.409	11.753	32,643	1.00	44.60
	ATOM	962	C	MET	427	29.526	9.202	34.324	1.00	28.70
	ATOM	963	O NT	MET	427	28.536	9.947	34.302	1.00	25.01
	MOTA MOTA	964 965	N CA	LEU LEU	428 428	29.451 28.173	7.902 7.292	34.057 33,730	1.00	25.13 27.60
	ATOM	966	CB	LEU	428	28.173	7.292 5.824	33,730	1.00	27.60
	ATOM	967	CG	LEU	428	29.039	5.682	31.957	1.00	26.99
•	ATOM	968	CD1	LEU	428	29.678	4.303	31.782	1.00	27.80
	ATOM	969	CD2	LEU	428	27.995	5.927	30.894	1.00	25.33
	MOTA	970	C	LEU	428	27.210	7.412	34.916	1.00	29,59
	MOTA	971	0	LEU	428	26.041	7.743	34.743	1.00	27.07
	MOTA	972	N	LEU	429	27.701 _.	7.147	36.126	1.00	30.40

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	ATOM	973	CA	LEU	429	26.859	7.251	37.323	1.00	30.59	• •
	MOTA	974	CB	Leu	429	27.675	6.884	38.571	1.00	31.76	
	atom	975	CG	LEU	429	28.078	5.415	38.757	1.00	32.43	
	MOTA	976	CD1	LEU	429	28.961	5.264	39.995	1.00	31.60	
	ATOM	977	CD2	LEU	429	26.825	4.573	38.903	1.00	34.66	
-	ATOM ATOM	978 9 7 9	С 6	LEU	429 429	26.319 25.143	8.681 8.901	37.466 37.769	1.00	30.46 28.40	
	ATOM	980	Ŋ	ALA	430	27.193	9.656	37.237	1.00	31.34	
	ATOM	981	CA	ALA	430	26.806	11,059	37.332	1.00	29.83	
	ATOM	982	CB	ALA	430	28.017	11.951	37.078	1.00	31.29	
	AŢOM	983	C	ALA	430	25.696	11.387	36.344	1.00	31.04	
	atom	984	ø	ALA	430	24.753	12.107	36.674	1,00	36.79	
	MOTA	985	N	THR	431	25,802	10.854	35.128	1.60	30.30	
	ATOM ·	986	CA	THR	431	24.786	11.105	34.112	1.00	28.81	
	Mota Mota	987 988	CB OG1	THR THR	431 431	25.207 26.569	10.533 10.893	32.737 32.465	1.00	30.55	
•	ATOM	989	CG2	THR	431	26.309	11.087	31.634	1.00	31.88 25.63	•
	ATOM	990	e	THR	431	23.462	10.481	34.530	1.00	29.49	
	MOTA	991	0	THR	431	22.402	11.099	34.397	1.00	26,18	
	MOTA	992	N	SER	432	23.520	9.253	35.037	1.00	28.11	
	ATOM	993	CA	SER	432	22.308	8.573	35.480	1.00	29.78	
	ATOM	994	CB	SER	432	22,639	7.177	36.008	1.00	33,11	
	ATOM	995 996	OG C	SER	432	21.454	6.412	36.136	1.00	36.92	
	MOTA MOTA	997	С 0	ser ser	432 432	21.651 20.433	9.399 9.576	36.589 36,613	1.00	31.49 30.09	
	ATOM	998	N	ASER	433	22.476	9.901	37.496	0.75	32.09	
	ATOM	999	Ņ	BSER.		22.474	9.906	37.500	0.25	31.10	
	ATOM	1000	CA	ASER	433	22.002	10.715	38.605	0,75	35.68	
	ATOM	1001	CA	BSER	433	21.985	10.717	38.608	0.25	32.21	
	ATOM	1002	CB	ASER		23.185	11.097	39.502	0.75	37.18	
•	ATOM ATOM	1003 1004	CB OG	BSER ASER		23.145 22.823	11.10 4 12.090	39.529 40.443	0.25 0,75	31.45 44.09	
	ATOM	1004		BSER		22.025	9.953	40.053	0.25		
	ATOM	1006		ASER		21.299	11.971	38.091	0.75	35.01	
	MOTA	1007	C	BSER	433	21.295	11.976	38,092	0.25	32.88	,
	ATOM	1008		ASER		20.257	12.373	38.612	0.75	35.34	
	ATOM	1009		BSER		20.264	12.391	38.622	0.25	33,42	
	ATOM	1010		ARG	434	21.867	12.579	37.054	1.00	33.38	
	atom Atom	1011	CA CB	arg arg	434 434	21.300 22.239	13.788 14.354	36,470 35.400	1.00	34.19 33.89	
•	ATOM	1013		ARG	434	21.670	15.528	34.625	1.00	38.30	
	MOTA	1014	CD	ARG	434	21.559	16.787	35.479	1.00	37.91	
•	ATOM	1015	NE	ARG	434 .	21.158	17.944	34.680	1.00	37.78	
	MOTA	1016		ARG	434	20.488	18,995	35.149	1.00	41.06	
	ATOM	1017		ARG	434	20.132	19.049	36.428	1.00	40.70	
	ATOM	1018		ARG	434	20.175	19.998	34.337	1,00	38.78	
	ATOM ATOM	1019 1020		arg arg	434 434	19.937 18.996	13.491 14.266	35.873 36.053	1.00	33.48	
	MOTA	1020		PHE	434	18.996	12.371	35,158	1.00	30.54 34.68	
	ATOM	1021		PHE	435	18.563	11.963	34.549	1.00	35.02	
	ATOM	1023		PHE	435	18.727	10.634	33.796	1.00	34.96	
	ATOM	1024		PHE	435	19.240	10.779	32.386	1.00	37.63	
	MOTA	1025		PHE	435	19.459	12.035	31.824	1.00	42.03	
	ATOM	1026		PHE	435	19.521	9.649	31.623	1.00	41.24	
	MOTA	1027		PHE	435	19.953	12.164	30.521	1.00	43.11	
	ATOM ATOM	1028 1029		PHE PHE	435 435	20.016 20.233	9.768 11.029	30.322 29.775	1.00	40.59 40.63	
	ATOM	1029		PHE	435	17.527	11.029	35.657	1.00	35.49	
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	MOTA	1031	Ο.	PHE	435	16.361	12.135	35.496	1.00	34.78		
	MOTA	1032	N	arg	436	17.968	11.216	36.777	1.00	38,27		
	ATOM	1033	CA	ARG	436	17.094	10.982	37.924	1.00	40.67		
	ATOM	1034	CB	ARG	436	17.844	10.215	39.012	1.00	40.70		
	ATOM	1035	CG	ARG	436	16.942	9.590	40,068	1.00	44.98		
	MOTA	1036	CD	arg	436	17.648	8.459	40.810	1.00	48.09		
	ATOM	1037	NE	ARG	436	18.982	8.841	41.275	1.00	50.16		
	ATOM	1038	CZ	ARG	436	20.119	8.361	40.777	1.00	52.19		
	ATOM	1039	NH1	ARG	436	20.099	7.472	39.790	1.00	49.34		
	MOTA	1040	NH2	ARG	436	21.283	8,770	41.266	1.00	51,85		
	ATOM	1041	C	ARG	436	16.576	12.302	38.493	1,00	40.40		
	ATOM	1042	0	ARG	436	15.382	12.458	38,730	1.00	41.49		
	ATOM	1043	N	MET	437	17.477	13.252	38.706	1.00	40.02		
	ATOM	1044	CA	MET	437	17.090	14.546	39.245	1.00	41.02		
	ATOM	1045	CB	MET	437	18.329	15.427	39.440	1.00	40.29		
•	MOTA	1046	C	MET	437	16.099	15.221	38.299	1.00	40.81		
	ATOM.	1047	0	MET	437	15.111	15.805	38.734	1,00	42.46		
	ATOM	1048	N	MET	438	16.367	15.127	37.001	1.00	39,02		
•	ATOM	1049	CA	MET	438	15.510	15.732	35.988	1.00	40.11		
	ATOM	1050	CB	MET	438	16.237	15.793	34.651	1.00	38.16		
	ATOM	1051	CG	MET	438	17.352	16.794	34.601	1.00	41.52		
	MOTA	1052	SD	MET	438	17.999	16.862	32.943	1,00	43.94		
	ATOM	1053	CE	MET	438	16.698	17.748	32.096	1.00	39.96		,
	ATOM	1054	C	MET	438	14.221	14.964	35,783	1.00	37.72		
	ATOM	1055	0	MET	438	13.305	15.451	35.125	1.00	36.82		
	ATOM	1056	N	ASN	439	14.155	13.759	36.337	1.00	38.81		
	MOTA	1057	CA	ASN	439	12.981	12.919	36.174	1.00	40.77		
	ATOM	1058	CB	asn	439	11.762	13.556	36.847	1,00	44.52		
	ATOM	1059	CG	asn	439	10.566	12.620	36.887	1.00	48.29		
	ATOM	1060	OD1	ASN	439	10.721	11.400	36,964	1.00	48.48		
	MOTA	1061	NĎ3	ASN	439	9.365	13.189	36.829	1.00	50.23		
	MOTA	1062	C	ASN	439	12.725	12.744	34.677	1.00	39.36		
	MOTA	1063	0	asn	439	11.637	13.037	34.172	1.00	37.76		
	ATOM	1064	N	LEU	440	13.749	12.274	33.972	1,00	37.65		
	MOTA	1065	CA	LEU	440	13.655	12.052	32.532	1.00	35.22		
	MOTA	1066	CB	LEU	440	14.999	11.576	31.987	1.00	34.70		
•	ATOM	1067	CG	LEU	440	15.022	11.467	30.462	1.00	35.45		
	ATOM	1068	CD1	LEU	440	14.890	12.862	29.869	1.00	35.24		
	MOTA	1069		ĻEU	440	16.297	10.795	29.999	1.00	35.30		
	atom	1070		LEU	440	12.587	11.024	32.196	1.00	36.48		
	ATOM	1071		ĻEU	440	12.518	9.967	32.826	1.00	37.36		
	ATOM	1072		GLN	441	11.763	11.328	31.197	1.00	36.82		
	MOTA	1073		GLN	441	10.696	10.420	30.785	1.00	38.51		
	ATOM	1074		GLN	441	9.431	11.211	30.443	1.00	38.23		
	ATOM	1075	CG	GLN	441	8.912	12.063	31.592	1.00	42.46		
	ATOM	1076		ĢLN	441	8,362	11.227	32.729	1,00	44.91		
	ATOM	1077		GLN	441	7.268	10.668	32.629	1.00	47.31		
	MOTA	1078		GLN	441	9.119	11.132	33.818	1.00	44.06	•	
	ATOM	1079		GLN	441	11.099	9.565	29.585	1.00	38.48		
	ATOM	1080		GLN	441	11.923	9.976	28.763	1.00	35.80		
	ATOM		N	GLY	442	10.500	8.378	29.494	1.00	36.03		
	ATOM	1082		GLY	442	10.792	7.468	28.401	1.00	37.72	•	
	MOTA	1083		GLY	442	10.599	8.112	27.043	1.00	36.88		
	ATOM		0	GLY	442	11.381	7.877	26.123	1.00	33.72		
	ATOM	1085		GLU	443	9.556	8.925	26.918	1.00	36.59		
	MOTA	1086		GLU	443	9.269	9.603	25.661	1.00	37.13		
	ATOM	1087		GLU	443	7.956	10.379	25.764	1.00	41.57		
	MOTA	1.088	CG	GLU	443	6.723	9.488	25.879	1,00	47.76		•

	MOTA	1089	CD	GLU	443	6.483	9.008	27.302	1.00	53.96	- •
	MOTA	1090	OE1	GĻU	443	5.619	8.123	27.498	1.00	57.66	
	MOTA	1091	OE3	GLU	443	7.159	9.515	28.225	1.00	56.13	
	ATOM	1092	C	GLU	443	10.408	10.551	25.311	1.00	35.27	
	ATOM .	1093	0	GLU	443	10.759	10.704	24.145	1.00	33.85	
	ATOM	1094	N	GLU	444	10.984	11.179	26.331	1.00	32.09	
	ATOM	1095	CA	GLU	444	12.097	12.095	26.126	1,00	33.92	
	MOTA	1096	CB	GLU	444	12.332	12.924	27.388	1.00	34.97	
	MOTA	1097	CG	GLU	444	11.169	13.845	27.732	1.00	38.28	
	ATOM	1098	CD	GLU	444	11.383	14.610	29.023	1.00	38.11	
•	ATOM	1099	OE1	GLU	444	11.800	13.993	30.026	1.00	39.53	
	ATOM	1100	OE2	GĻŪ	444	11.132	15,834	29.036	1.00	40.77	
	ATOM	1101	C	GLU	444	13.356	11.305	25.770	1.00	33,59	
	ATOM	1102	0	glu	444	14.085	11.670	24.842	1.00	33.35	
	ATOM	1103	N	PHE	445	13.590	10.215	26.501	1.00	30.68	
	MOTA	1104	CA	PHE	445	14.753	9.357	26.276	1,00	32,49	
	ATOM	1105	CB	PHE	445	14.703	8.139	27.203	1.00	29.35	
	MOTA	1106	CG	PHE	445	15.667	7.047	26.828	1.00	30.78	
	MOTA	1107	CD1	PHE	445	17.036	7.201	27.030	1.00	28.25	
	MOTA	1108	CD2	PHE	445	15.205	5.863	26,266	1.00	30.62	•
	MOTA	1109	CEl	PHE	445	17.933	6.195	26.675	1.00	28.67	
	ATOM	1110	CE2	PHE	445	16.095	4.848	25.908	1.00	31,37	•
	ATOM	1111	CZ	PHE	445	17.460	5.015	26.113	1.00	30.37	
	ATOM	1112	C	PHE	445	14.850	8.885	24.829	1.00	31.11	
	ATOM	1113	0	PHE	445	15.924	8.947	24.221	1.00	32.20	
	ATOM	1114	N	VAL .	446	13.739	8.415	24.266	1.00	28.63	
	ATOM	1115	CA	VAL	446	13,787	7.943	22.889	1.00	27.94	
	ATOM	1116	CB	VAL	446	12.478	7.193	22.478	1.00	28.48	
	ATOM	1117	CG1	VAL	446	12.318	5.939	23.343	1.00	29.61	
	ATOM	1118	CG2	VAL	446	11.265	8.092	22.607	1.00	27.23	
	MOTA MOTA	1119 1120	C 0	VAL	446	14.099	9.064	21,900	1.00	27.28	,
	ATOM	1121	Ŋ	VAL CYS	446	14.781	8.837	20.904	1.00	28.07	
	ATOM	1121	CA	CYS	447 447	13.619 13.919	10.275 11.394	22.166	1.00	28.97	• •
	ATOM	1123	CB	CYS	447	13.156	12.653	21.272 21.693	1.00	29.14 28.90	
	ATOM	1124	SG	CYS	447	11.389	12.591	21.309	1.00	35.68	
	ATOM	1125	C	CYS	447	15.420	11.677	21.328	1.00	28.03	
	ATOM	1126		CYS	447	16.063	11.885	20.302	1:00	29.34	
	ATOM	1127		LEU	448	15.969	11.686	22.538	1.00	27.28	
	ATOM	1128	CA	LEU	448	17,392	11.938	22.729	1.00	25.30	
	ATOM	1129	CB	LEU	448	17.733	11.932	24.220	1.00	27.72	
	ATOM	1130	ÇG	LEU	448	17.248	13.135	25.040	1.00	29.54	
	ATOM	1131	CD1	LEU	448	17.807	13.042	26.454	1.00	30.85	
	ATOM	1132	CD2	LEU	448	17.688	14.434	24,376	1.00	30.24	
	ATOM	1133	С	LEU	448	18.245	10.902	22.008	1.00	27.62	
	ATOM		0	LEU	448	19.207	11.252	21.327	1.00	25.10	
	ATOM		N	LYS	449	17.905	9.621	22.162	1.00	25.16	
	ATOM	1136	CA	LYS	449	18.673	8.570	21.506	1.00	27.55	
	ATOM	1137	СВ	LYS	449	18.135	7.185	21.900	1.00	28.99	
	MOTA	1138	CG	LYS	449	19.134	6.052	21.694	1.00	34.70	
	ATOM	1139	CD	LYS	449	18.737	4.789	22.459	1.00	32.67	
	ATOM	1140	CE	LYS	449	17.267	4.419	22.220	1.00	31.87	
	ATOM	1141	NZ	LYS	449	17.022,	2.967	22.472	1.00	29.14	
	ATOM	1142	С	LYS	449	18.626	8.749	19,990	1.00		
	ATOM	1143	0	LYS	449	19.610	8.489	19.296	1.00	25.93	
	ATOM	1144	N	SER	450	17.482	9.197	19.480	1.00	26.07	
	ATOM	1145	CA	SER	450	17.323	9.421	18.052	1.00	27.24	
	ATOM	1146	CB	SER	450	15.857	9.705	17.721	1.00	32.24	

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MOTA	1147	OG	SER	450	15.098	8.519	17.779	1.00	34.94
atom	1148	C	SER	450	18.176	10.607	17.618	1,00	26.78
MOTA	1149	0	SER	450	18.763	10.598	16.535	1.00	25.85
MOTA	1150	Ŋ	ILE	451	18.231	11.632	18.463	1.00	26.94
ATOM	1151	CA	ILE	451	19.032	12.810	18.155	1.00	26,13
MOTA	1152	CB	ILE	451	18.950	13.850	19.291	1.00	27.72
MOTA	1153	CG2	ILE	451	20.019	14.929	19.101	1.00	20,53
MOTA	1154	CG1	ILE	451	17.553	14.475	19.322	1.00	29.49
MOTA	1155	CD1	ILE	451	17.377	15.473	20.447	1.00	36.24
MOTA	1156	C	ILE	451	20.489	12.381	17.989	1.00	24.88
ATOM	1157	O	ILE	451	21.161	12.771	17.034	1.00	26.96
MOTA	1158	N	ILE	452	20.977	11.582	18.931	1.00	22.72
MOTA	1159	CA	ILE	452	22.359	11.120	18.880	1,00	21.95
ATOM	1160	CB	İLE	452	22.660	10.155	20.050	1.00	23.57
MOTA	1161	CG2	ILE	452	23.982	9.435	19.804	1.00	22.10
MOTA	1162	CG1	ILE	452	22.718	10.949	21.371	1.00	21.70
MOTA	1163	CD1	ILE	452	22.768	10.060	22.624	1,00	25.30
ATOM	1164	C	ILE	452	22.656	10.419	17.557	1,00	23.02
ATOM	1165	0	ILE	452	23.650	10.708	16.885	1.00	21,25
ATOM	1166	N	LEU	453	21.779	9.497	17.173	1.00	22.83
MOTA	1167	CA	LEU	453	21.984	8.768	15.935	1.00	22.05
ATOM	1168	CB	LEU	453	20.843	7.764	15.733	1.00	22.06
ATOM	1169	CG	LEU	453	20.712	7.189	14.324	1,00	22.03
MOTA	1170	CD1	LEU	453	21.815	6.165	14.107	1.00	24.81
MOTA	1171	CD2	LEU	453	19.328	6.535	14.156	1.00	24.73
MOTA	1172	C	LEU	453	22.092	9.687	14,717		23.95
MOTA	1173	0	LEU	453	22.962	9.501	13.860	1.00	24.60
ATOM	1174	N	LEU	454	21.220	10.687	14.638	1.00	26.72
MOTA	1175	CA	LEU	454	21.234	11.599	13.494	1.00	26.45
MOTA	1176	CB	LEU	454	19.852	12.242	13.330	1.00	25.51
MOTA	1177	CG	LEU	454	18.737	11.222	13.052	1.00	30.16
MOTA	1178 1179	CD1 CD2	LEU	454 454	17.405	11.926 10.478	12.955	1,00	28.76
atom atom	1180	CD2	LEU LEU	454 454	19.037 22.292	12.703	11.759 13.552	1.00 1,00	32.59 28.24
ATOM	1181	Õ	LEU	454	22.778	13.148	12.513	1.00	29.06
ATOM	1182	N	ASN	455	22.638	13.146	14.757	1.00	26.56
ATOM	1183	CA	ASN	455	23.604	14.236	14.934	1.00	26.79
ATOM	1184	CB	ASN	455	23.284	14.998	16.224	1.00	26,20
ATOM	1185		ASN	455	24.174	16.217	16,419		27.26
MOTA	1186	OD1	ASN	455	24.171	17.134			30.83
ATOM	1187	ND2		455	24.931	16.230	17.506	1.00	27.16
MOTA	1188	C	ASN	455	25.062	13.782	14.954	1.00	30.63
ATOM	1189	0	ASN	455	25.965	14.517	14.525	1.00	27.69
ATOM	1190	N	SER	456	25.268	12.569	15.461	1.00	30.48
ATOM	1191	CA	SER	456	26.572	11,928	15.579	1.00	35.26
ATOM	1192	CB	SER	456	26.393	10.393	15.505	1.00	39.69
ATOM	1193	OG	SER	456	25.871	9,953	14.243	1.00	30.73
ATOM	1194	C	SER	456	27.627	12.344	14.562	1.00	35.56
MOTA	1195	0	SER	456	28.599	13.041	14.884	1.00	33.00
MOTA	1196	N	GLY	457	27.437	11.886	13.334	1.00	33.88
MOTA	1197	CA	GLY	457	28.393	12.189	12.292	1,00	36.77
MOTA	1198	С	GLY	457	27.876	13.017	11.136	1.00	37.02
MOTA	1199	0	GLY	457	28.310	12.805	10.013	1.00	38.66
ATOM	1200	N	VAL	458	26.967	13.956	11.392	1.00	39.12
ATOM	1201	CA	VAL	458	26.438	14.802	10.317	1.00	43.81
MOTA	1202	CB	VAL	458	25.231	15.648	10.755	1.00	44.25
ATOM	1203	CG1	VAL	458	24.209	15.713	9.631	1,00	44.51
MOTA	1204	CG2	VAL	458	24.638	15.098	12.013	1.00	50.53

	ATOM	1205	С	VAL	458	27.472	15.801	9.817	1.00	46.72	
	ATOM	1206	0	VAL	458	27.391	16.265	8.681	1.00	47.08	
	ATOM	1207	N	TYR	459	28.432	16.144	10.670	1.00	50.74	
	ATOM	1208	CA	TYR	459	29.456	17.114	10.301	1.00	55.43	
	ATOM	1209	CB	TYR	459	29.647	18.129	11.433	1.00	56.62	
	ATOM .	1210	CG	TYR	459	28.375	18.870	11.781	1.00	59.34	
		1211	CD1	TYR							
	MOTA				459	28.094	19.229	13.095	1.00	60.73	
	ATOM	1212	CE1	TYR	459	26.900	19.867	13.429	1.00	62.14	
	ATOM	1213	CD2	TYR	459	27.430	19.175	10.795	1.00	62.16	
	ATOM	1214	CE2	TYR	459	26.234	19.812	11.118	1.00	63.83	
	ATOM	1215	CZ	TYR	459	25.976	20.154	12.437	1,00	62.88	
	ATOM	1216	OH	TYR	459	24.790	20.764	12.767	1.00	62.56	
	ATOM	1217	C	TYR	459	30.791	16.489	9.928	1.00	57.21	
	ATOM	1218	0	TYR	459	31.793	17.189	9.798	1.00	56.86	
	ATOM	1219	N	THR	460	30.800	15.173	9.750	1.00	59.22	
	ATOM	1220	CA	THR	460	32.018	14,474	9.366	1.00	62.25	
	MOTA	1221	CB	THR	460	32.502	13.531	10.499	1.00	63.07	
	ATOM	1222	OG1	THR	460	33.474	12.613	9.983	1.00	67.80	
	ATOM	1223	CG2	THR	460	31.344	12.759	11.084	1.00	60.23	
	ATOM	1224	С	THR	460	31.759	13.678	8.086	1.00	63.54	
	ATOM	1225	Ō	THR	460	32.457	12.708	7.782	1.00	63.91	
	ATOM	1226	N	PHE	461	30.758	14.113	7.326	1.00	65.06	
	ATOM	1227	CA	PHE	461	30.795	13.446	6.080	1.00	67.00	
	ATOM	1228	CB	PHE	461	29,052	13.975	5.563	1.00	66.48	
	ATOM	1229	ÇG	PHE	461	27.867	13.147	5.991	1.00	66.30	
	ATOM	1230	CD1		461						
				PHE		26,657	13.754	6.312	1,00	65.58	
	MOTA	1231	CD3	PHE	461	27.963	11.760	6.085	1.00	66.41	
	MOTA	1232	CE1	PHE	461	25.562	12.996	6.723	1.00	65.45	
	ATOM	1233	CE2	PHE	461	26.872	10.994	6.494	1.00	66.83	
•	ATOM	1234	CZ	PHE	461	25.670	11.616	6.814	1.00	65.12	
	MOTA	1235	С	PHE	461	31.463	13.604	5.004	1.00	68.38	
	ATOM	1236	0	PHE	461	32.181	14.606	4.962	1.00	68.98	
	ATOM	1237	N	LEU	462	31.542	12.601	4.132	1.00	69.57	
	ATOM	1238	CA	LEU	462	32.511	12.545	3.039	1.00	71.68	
	ATOM	1239	CB	LEU	462	32.080	11.475	2,030	1.00	71.00	
	ATOM	1240	C	LEU	462	32.810	13.856	2.304	1.00	72.40	
	ATOM	1241	0	LEU	462	33.725	14.590	2.680	1.00	73.45	
	MOTA	1242	N	SER	463	32,043	14.141	1.253	1.00	73.22	
	ATOM	1243	CA	SER	463	32.262	15.343	0.449	1.00	72.61	
	ATOM	1244	CB	SER	463	32.544	14.942	-1.005	1,00	73.38	
	MOTA	1245	С	SER	463	31.126	16.362	0.491	1.00	71.17	
	ATOM	1246	Q	SER	463	30.455	16.528	1.511	1.00	72.05	
	ATOM	1247	N	SER	464	30.932	17.049	-0.633	1.00	68.86	
	ATOM	1248		SER	464	29.892	18.063	-0.759	1.00	66.06	
	ATOM-	1249		SER	464	30,514	19.457	-0.704	1.00	66.26	
	ATOM		C	SER	464	29.108	17.887	-2.060	1.00	63.72	
	ATOM		0	SER	464	28.657	18.862	-2.662	1.00	62.88	
	ATOM		N	THR	465	28.954	16.638	-2.493	1.00	60.93	
	ATOM		CA	THR	465	28.205	16.343	-3.709	1.00	57.47	
	ATOM	1254	CB	THR	465	28.185	14.824	-4.004	1.00	57.80	
	MOTA	1255	0G1	THR	465	27.525	14.135	-2.934	1.00	54.75	
	ATOM		CG2	THR	465	29.606	14.287	-4.149	1.00	57.49	
	ATOM	1257		THR	465	26.767	16.824	-3.523	1.00	54.93	
	ATOM		0	THR	465	26.349	17.129	-2.407	1.00	54.26	
	ATOM		N	LEU	466	26.013	16.892	-4.614	1.00	51.85	•
	ATOM	1260	CA	LEU	466	24.625	17.330	-4.550	1.00	49.25	
	ATOM	1261	CB	LEU	466	24.013	17.349	-5.956	1.00	48.74	
	MOTA	1262	CG	LEU	466	22.953	18.415	-6.253	1.00	48.72	

	ATOM	1263	CD1	LEU	466	22.156	18.002	-7.482	1.00	48.32
									~	
	MOTA	1264	CD2	LEU	466	22.033	18.594	-5.057	1.00	48.14
	ATOM	1265	C	Leu	466	23.817	16.397	-3.650	1.00	48.16
	MOTA	1266	0	LEU	466	22.961	16.845	-2.883	1.00	45.90
	atom	1267	N	Lys	467	24.093	15.099	-3.750	1.00	46.47
,	ATOM	1268	CA	LYS	467	23.399	14.100	-2.947	1.00	47.45
	ATOM	1269	CB	LYS	467	23.802	12.693	-3.395	1.00	49.38
	ATOM	1276	CG	LYS	467	22.829	11.602	-2.974	1,00	52.70
	ATOM	1271	CD	LYS	467	23.561	10.301	-2.682	1.00	56.48
	MOTA	1272	CE	LYS	467	23.105	9.186	-3.604	1.00	59.54
	MOTA	1273	NZ	LYS	467	24.150	8.117	-3.732	1.00	61.22
	MOTA	1274	e	LYS	467	23.738	14.284	-1.492	1.00	46.89
	ATOM	1275	0	LYS	467	22.884	14.108	-0.604	1.00	46.06
	MOTA	1276	N	SER	468	24.989	14.644	-1.202	1.00	45.82
	ATOM	1277	CA CB	SER	468	25.457	14.854	0.160	1.00	46.82
	ATOM ATOM	1278 1279	0G	ser Ser	468 468	26.976	15.050	0.173	1.00	47.85
	ATOM	1280	C	SER	468	27.407 24.778	15.537 16.063	1.435 0.790	1.00	\$5.73 44.24
	ATOM	1281	0	SER	468	24.778	16.062	1.983	1.00	42.98
	ATOM	1282	и	LEU	469	24.547	17.100	-0.011	1.00	42.33
	ATOM	1283	CA	LEU	469	23,890	18.301	0.486	1.00	40.42
	ATOM	1284	СВ	LEU	469	24.002	19.427	-0.545	1.00	44.47
	ATOM	1285	CG	LEU	469	25.438	19.874	-0.849	1.00	46.70
	ATOM	1286	CD1	LEU	469	25.514	20.477	-2.246	1,00	46.70
	ATOM	1287	CD2	LEU	469	25.890	20.883	0.199	1,00	47.32
	MOTA	1288	C	LEU	469	22.423	17.996	0.786	1.00	39.06
	ATOM	1289	O	LEU	469	21.856	18.505	1.760	1.00	34.97
	ATOM	1290	N	GLU	470	21.814	17,151	-0.046	1.00	35.46
	ATOM	1291	CA	GLU	470	20.418	16.768	0.145	1.00	34.38
	MOTA	1292	CB	GLU	470	19.914	15,963	-1.052	1.00	38.02
	ATOM	1293	CG	GLU	470	19.772	16.773	-2.329	1.00	42.67
	MOTA	1294	CD	GLU	470	19.339	15.923	-3.509	1.00	48.30
	ATOM	1295	OE1	GLU	470	19.671	14.716	-3.538	1.00	50.53
	ATOM	1296	OE2	GLU	470	18.666	16.463	-4.412	1.00	51.06
	ATOM ATOM	1297 1298	С Ө	GLU	470	20.290	15.916	1.463	1.00	34.37
	ATOM	1299	И	GLU GLU	470 471	19.321 21.274	16.035 15.046	2.157 1.606	1.00 1.00	32.60 34.66
	ATOM	1300	CA	GLU	471	21.274	14,162	2.766	1.00	35.68
	ATOM	1301			471	22.515	13.222	2.671		34.57
	ATOM	1302	CG	GLU	471	22.376	12.122	1.614		37.98
	ATOM	1303	CD	GLU	471	21.476	10.989	2.063	1.00	39,79
	MOTA	1304	OE1	GLU	471	20.268	11.027	1.743	1.00	41.12
	ATOM	1305	OE2	GLU	471	21.974	10.061	2.737	1.00	32.11
	ATOM	1306	С	GLU	471	21.393	14.983	4.052	1.00	34.79
	MOTA	1307	0	GLU	471	20.596	14.793	4.969	1.00	32.80
	MOTA	1308	N	LYS	472	22.358	15.898	4.112	1.00	33.93
	ATOM		CA	LYS	472	22.518	16.739	5.291	1.00	35.58
	MOTA		CB	LYS	472	23.683		5.097	1.00	39.11
	ATOM	1311	ÇG		472	25.050	17.050	5.138	1.00	41.47
	ATOM		CD	LYS	472	26.080	17.957	5.794	1.00	46.97
	ATOM	1313	CE	LYS	472	27.445	17.286	5.862		48,40
	ATOM		NZ	LYS	472	27.850	16.702	4.547	1.00	51.55
	ATOM		C	LYS	472	21.237	17.523	5.582	1.00	34.78
	ATOM		0	LYS	472	20.795	17.607	6.724	1.00	33.95
	ATOM	1317	N	ASP	473	20.643	18.097	4.545	1.00	33.47
	ATOM		CA	ASP	473	19.420	18.865	4.720	1.00	34.63
	ATOM ATOM	1319 1320	CB	asp Asp	473 473	18.923 17.654	19.404 20.221	3.380	1,00	37.21
	A4 014	1320		nor	4/3	17.534	20.221	3.522	1.00	43.24

ATOM	1321	QD1	ASP	473	16.559	19.687	3.230	1.00	45.20
ATOM	1322	OD2	ASP	473	17.750	21.396	3.933	1.60	
ATOM	1323	C	ASP	473	18.339	17,998	5.338	1.00	
MOTA	1324	õ	ASP	473	17.642	18.416	6.264	1.00	
MOTA	1325	И	HIS	474	18.199	16.784	4.827	1.00	
ATOM	1326	CA	HIS	474	17.185	15.882	5.343	1.00	
ATOM	1327	CB	HIS	474	17.185	14.575	4.568	1.00	32.79
ATOM	1328	CG CG	HIS	474	16.047	13.675	4.924	-	
ATOM	1329	CD2	HIS	474	14.711	13.873	4.750	1.00	36.22
ATOM	1330	ND1	HIS	474	16.227		\$.730 \$.542	1,00	38.33
	1331					12.456		1.00	
atom Atom	1332	CE1 NE2	HIS	474	15.053	11.883	5.732	1.60	37.99
	1333		HIS UTC	474	14.116	12.686	5.261	1,00	37.43
ATOM		C	HIS	474	17.403	15.573	6.815	1.00	29.74
ATOM	1334	0	HIS	474	16.460	15.543	7.596	1.00	
MOTA	1335	И	ILE	475	18.653	15.326	7.185	1.00	27.80
ATOM	1336	CA	ILE	475	18.971	15.014	8.571	1.00	25.61
ATOM	1337	CB	ILE	475	20.478	14.708	8.720	1.00	25.59
ATOM	1338	CG2	ILE	475	20.877	14.713	10.193	1.00	27.17
ATOM	1339	CG1	ILE	475	20.787	13.341	8.092	1.00	26.17
ATOM	1340	CD1	ILE	475	22.258	13.071	7.849	1.00	27.07
ATOM	1341	c	ILE	475	18.576	16.201	9.460	1.00	27.91
MOTA	1342	0	ILE	475	17.928	16.038	10.485	1.00	29.16
ATOM	1343	N .	HIS	476	18.956	17.404	9.054		29,41
ATOM ATOM	1344 1345	CA CB	HIS HIS	476 476	18.621 19.342	18.575 19.796	9.846	1.00	29.73
ATOM	1345	CG	HIS	476	20.777	19.796	9.281 9.699	1.00	32.27 39.44
ATOM	1347	CD2	HIS	476	21.355	19.707	10.915	1.00	39.81
ATOM	1348	ND1	HIS	476	21.809	20.067	8.808	1.00	39.79
ATOM	1349	CE1	HIS	476	22.959	20.007	9.456	1.00	39.98
ATOM	1350	NE2	HIS	476	22.712	19.809	10.735	1.00	40.26
ATOM	1351	C	HIS	476	17.120	18.810	9.948	1.00	31.40
ATOM	1352		HIS	476	16.636	19.336	10.951	1.00	29.79
ATOM	1353	N	ARG	477	16.374	18.396	8.929	1.00	31.82
ATOM	1354	CA	ARG	477	14.929	18.570	8.956	1.00	31.53
ATOM	1355	CB	ARG	477	14.343	18.376	7.557	1.00	34.95
ATOM	1356	CG	ARG	477 .	14.425	19,627	6.700	1.00	40.46
ATOM	1357	CD .	ARG	477	13.698	19.445	5,370	1.00	45.22
ATOM	1358	NE	ARG	477	14.107	20.456	4.399	1.00	53.05
ATOM	1359	CZ	ARG	477	13,647	21.705	4.376	1.00	55.89
MOTA	1360	NH1	ARG	477	12.756	22.106	5.274	1.00	56.17
ATOM	1361	NH2	ARG	477	14.084	22.558	3.457	1,00	59.49
ATOM	1362	C	ARG	477	14.310	17,582	9.931	1.00	30.70
ATOM	1363	0	ARG	477	13.360	17.903	10.649	1.00	30.24
ATOM	1364	N	VAL	478	14.863	16.375	9.972	1.00	29.67
MOTA	1365	CA	VAL	478	14.351	15,369	10.887	1.00	29.68
MOTA	1366	CB	VAL	478	14.937	13.975	10.575	1.00	32.01
ATOM	1367	CG1	VAL	478	14.461	12,973	11.609	1.00	32.93
ATOM	1368	CG2	VAL	478	14.506	13.528	9.169	1.00	31.00
ATOM	1369	C	VAL	478	14.696	15.774	12.316	1.00	29.81
ATOM	1370	0	VAL	478	13.860	15.677	13.220	1.00	30.25
ATOM	1371	N	LEU	479	15.929	16.232	12.516	1.00	28.81
ATOM	1372	CA	LEU	479	16.360	16.674	13.836	1.00	28.74
ATOM	1373	CB	LEU	479	17.799	17.210	13.779	1.00	26.65
ATOM .	1374	CG	ĻEU	479	18.910	16.152	13.853	1.00	26.05
ATOM	1375	CD1	LEU	479	20.231	16.772	13.395	1.00	25.81
ATOM	1376	CD2	LEU	479	19.028	15.603	15.277	1.00	25.34
ATOM	1377	C	LEU	479	15.411	17.777	14.313	1.00	29.54
ATOM	1378	0	LEU	479	14.997	17.786	15.472	1.00	29.00

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MOTA	1379	N	ASP	480	15.076	18.703	13.415	1.00	31.52	
MOTA	1380	CA	ASP	480	14.162	19.800	13.741	1.00	33.84	
MOTA	1381	CB	asp	480	13.943	20.712	12.528	1.00	34.37	
MOTA	1382	CG	ASP	480	15.055	. 21.743	12.345	1.00	36.26	
ATOM	1383	OD1	asp	480	15.119	22.354	11.257	1.00	36.56	
ATOM	1384	OD2	ASP	480	15.860	21.951	13.274	1.00	34.19	
ATOM	1385	C	ASP	480	12.818	19.222	14.174	1.00	33.48	
ATOM	1386	0	ASP	480	12.186	19.724	15.105	1.00	33.89	
Mota	1387	N	LYS	481	12.379	18.161	13.498	1.00	33.90	
MOTA	1388	CA	LYS	481	11.106	17.536	13.839	1.00	32.97	
ATOM	1389	CB	ĻYS	481	10.719	16.489	12.784	1.00	34,66	
ATOM	1390	C	LYS	481	11.164	16.895	15.225	1.00	33.57	
MOTA	1391	0	LYS	481	10.167	16.869	15.943	1.00	35.37	
ATOM	1392	N	ILE	482	12.328	16.377	15.607	1.00	32.71	
ATOM	1393	CA	TLE	482	12.457	15.764	16.932	1.00	31.60	
MOTA	1394	CB	ILE	482	13.743	14.913	17.028	1.00	32.65	
ATOM	1395	CG2	ILE	482	13.877	14,338	18.430	1.00	32.50	
ATOM	1396	CG1	ILE	482	13.697	13.785	15.995	1.00	32.72	•
ATOM	1397	CD1	ILE	482	14.978	12.969	15.908	1.00	33.37	
ATOM	1398	С	ILE	482	12,456	16.853	17.994	1.00	31.69	
MOTA	1399	0	ILE	482	11.946	16.649	19,097	1.00	29.98	
ATOM	1400	N	THR	483	13.027	18.012	17.679	1.00	31.33	
ATOM	1401	CA	THR	483	13.022	19.109	18.644	1.00	31.71	
ATOM	1402	CB	THR	483	13.756	20.351	18.109	1.00	32.92	
MOTA	1403	OG1	THR	483	15,111	20.012	17.788	1.00	29.99	
ATOM	1404	CG2	THR	483	13.756	21.452	19.160	1.00	30.47	
MOTA	1405	С	THR	483	11.559	19.483	18.920	1.00	32.85	
ATOM	1406	Ο.	THR	483	11.146	19.598	20.070	1.00	31.83	
ATOM	1407	N	ASP	484	10.785	19.656	17.851	1.00	31.91	
ATOM	1408	CA	ASP	484	9.369	20.003	17.965	1.00	34.15	
ATOM	1409	CB	ASP	484	8.708	20.013	16.591	1,00	37.41	
ATOM	1410	CG	ASP	484	9,270	21.080	15.680	1.00	42.02	
ATOM	1411	OD1	ASP	484	9.871	22.045	16.198	1.00	43.26	
MOTA	1412	OD2	ASP	484	9.106	20.952	14.445	1.00	42,49	
ATOM	1413	C	ASP	484	8.657	18.985	18,840	1,00	33.16	
ATOM	1414	0	ASP	484	7.830	19.339	19.676	1,00	34.86	
ATOM	1415	N	THR	485	8.996	17.715	18.646	1.00	33,91	
ATOM	1416	CA	THR	485	8.396	16.635	19.414		34.41	
ATOM	1417	Ċ₿	THR	485	8.875	15.268	18,885		33.58	
ATOM	1418	OG1	THR	485	8.400	15.094	17.542	1.00	37.04	
MOTA	1419	CG2	THR	485	8.347	14.138	19.751	1.00	30.89	
ATOM	1420	С	THR	485	8,708	16.757	20.903	1.00	35.15	
ATOM	1421	0	THR	485	7.818	16.600	21.744	1.00	31,99	
ATOM	1422	N	LEU	486	9.966	17.046	21.229	1.00	33.77	
ATOM	1423	CA	LEU	486	10.368	17.192	22.621	1.00	34.31	
ATOM	1424	СВ	LEU	486	11.879	17.448	22.721	1.00	32,00	
MOTA	1425	CG	LEU	486	12.776	16.201	22.754	1.00	34.99	
ATOM	1426	CD1	LEU	486	14.233	16.613	22.521	1.00	32.65	
MOTA	1427	CD2	LEU	486	12.635	15.481	24.105	1.00	29.90	
ATOM	1428	С	LEU	486	9.597	18.348	23.256	1.00	34.87	
MOTA	1429	0	LEU	486	9.078	18.225	24.362	1.00	35.85	
MOTA	1430	Ŋ	ILE	487	9.513	19.469	22.548	1.00	35.59	
ATOM	1431	CA	ILE	487	8.787	20.625	23.064	1.00	36.79	
ATOM	1432	CB	ILE	487	8.890	21.826	22.095	1.00	37.32	
MOTA	1433	CG2	ILE	487	7.833	22.884	22.443	1.00	40.19	
MOTA	1434	CG1	ILE	487	10.292	22.443	22.181	1.00	36.00	
MOTA	1435	CD1	ILE	487	10.635	23.041	23.544	1.00	33.58	
MOTA	1436	C	ILE	487	7.315	20.257	23.276	1.00	38.56	

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ATOM	1437	0	ILE	487	6.708	20.628	24.282	1.00	38.52	
ATOM	1438	N	HIS	488	6.749	19.521	22.326	1.00	40.33	
ATOM	1439	CĄ	HIS	488	5.357	19.096	22.427	1.00	42.29	
MOTA	1440	CB	HIS	488	4.962	18.282	21.197	1.00	44.26	
ATOM	1441	CG	HIS	488	3.612	17.647	21.305	1.00	47.75	
ATOM	1442	CD2	HIS	488	2.369	18.175	21,214	1.00	47.46	
ATOM	1443	ND1	HIS	488	3.440	16.298	21.534	1.00	51.09	
ATOM	1444	CE1	HIS	488	2.148	16.023	21.577	1.00	51.15	
MOTA	1445	NE2	HIS	488	1.477	17.144	21.385	1.00	50.22	
MOTA	1446	C	HIS	488	5.154	18.254	23.685	1.00	42.55	
MOTA	1447	0	HIS	488	4.233	18.498	24.467	1.00	43.02	
ATOM	1448	N	LEU	489	6.022	17,266	23.879	1,00	39.91	
MOTA	1449	ÇA	LEU	489	5.936	16.399	25.048	1.00	39.93	
ATOM	1,450	CB	LEU	489	7,087	15.396	25.048	1,00	38,83	
ATOM	1451	CG	LEU	489	6.961	14.242	24.056	1.00	39.31	
ATOM	1452	CD1	LEU	489	8.259	13.456	24.027	1.00	39.01	
ATOM	1453	CD2	LEU	489	5.799	13.345	24.459	1.00	41.98	
MOTA	1454	C	LEU	489	5.973	17.203	26.339	1.00	40.24	
ATOM	1455	0	LEU	489	5.267	16.888	27.298	1.00	38.72	
atom	1456	N	MET	490	6.798	18.246	26.353	1.00	39.94	
ATOM	1457	CA	MET	490	6.939	19.102	27,522	1.00	41.50	
MOTA	1458	CB	MET	490	8.208	19.953	27.394	1,00	39.15	
ATOM	1459	CG	MET	490	9.495	19.169	27.608	1.00	41.69	
ATOM	1460	SD	MET	490	10.978	20.106	27.161	1.00	35.76	
ATOM	1461	CE	MET	490	12.178	18.775	27.056	1.00	39.22	
ATOM	1462	С	MET	490	5,718	20.004	27.717	1,00	42.33	
ATOM	1463	0	MET	490	5.296	20.258	28.848	1.00	41.09	
ATOM	1464	N	ALA	491	5.162	20.498	26.616	1.00	43.15	
ATOM	1465	CA	ALA	491	3.983	21.351	26.693	1.00	43.79	
ATOM	1466	CB	ALA	491	3.622	21.879	25.311	1.00	43.93	
MOTA	1467	C	ALA	491	2.841	20.510	27.251	1.00	46.16	
MOTA	1468	0	ALA	491	2.073	20.967	28,095	1.00	44.69	
ATOM	1469	N	LYS	492	2.752	19.268	26.783	1.00	46.29	
ATOM	1470	CA	LYS	492	1.711	18.351	27.222	1.00	49,90	
ATOM	1471	CB	LYS .		1,772	17.053	26.411	1.00	50.03	
ATOM	1472	CG	LYS	492	1.087	17.135	25.062	1.00	53.81	
ATOM	1473 1474	CD	LYS	492	-0.002	16.084	24.930	1.00	59.00	
ATOM			LYS	492	-0.988	16.453	23.827			
ATOM ATOM	1475 1476		LYS	492	-1.351	15.281	22.976	1.00	62.89	
ATOM	1477		LYS	492	1.841	18.025	28.701	1.00	51.15	
ATOM	1478	N	LYS Ala	492 493	0.845 3.072	17.784 18.012	29.379 29.199	1.00	53.37	
ATOM	1479		ALA	493	3.321	17.706	30.600	1.00	50.15 49.17	
ATOM	1480		ALA	493	4.777	17.700	30.794	1.00	50.39	
ATOM	1481	C	ALA	493	2.971	18.885	31.501	1.00	49.36	
ATOM	1482	0	ALA	493	3.089	18.799	32.723	1.00	51.57	
ATOM	1483	N	GLY	494	2.554	19.989	30.893	1.00	48.61	
ATOM	1484	CA	GLY	494	2.185	21.159	31.671	1.00	46.92	
ATOM	1485		GLY	494	3.322	22.107	32.006	1.00	45.46	
ATOM	1486		GLY	494	3.206	22.921	32.919	1,00	43.58	
ATOM	1487		LEU	495	4.431	22.009	31.284	1.00	44.81	
ATOM	1488		LEU	495	5.555	22.899	31.540	1.00	42.34	
ATOM	1489		LEU	495	6.847	22.293	30.988	1.00	43.79	
ATOM	1490	CG	LEU	495	7.712	21.459	31.936	1.00	40.99	
ATOM	1491		LEU	495	7.022	20.156	32.260	1.00	44.70	
ATOM	1492		LEU	495	9.072	21.189	31.270	1.00	42.12	
ATOM	1493		LEU	495	5.278	24.227		1.00	42.13	
ATOM	1494	Õ	LEU	495	4.664	24.258	29.778	1.00	42.49	
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MOTA	1495	N	THR	496	5.718	25.324	31.452	1.00	42.73
atom	1496	CA	THR	495	5.521	26.636	30.845	1.00	43.56
MOTA	1497	CB	THR	496	5.841	27.767	31.829	1.00	46.09
ATOM	1498	OGI	THR	496	7.222	27.688	32.208	1.00	43.92
ATOM	1499	CG2	THR	496	4.965	27.662	33.064	1.00	45.63
ATOM	1500	С	THR	496	6.471	26.764	29.660	1.00	45.54
MOTA	1501	O	THR	496	7.370	25.939	29.488	1.00	43.39
ATOM	1502	N	LEU	497	6.280	27.800	28.849	1.00	45.02
ATOM	1503	CA	LEU	497	~ 7,135	28.020	27.688	1.00	45.12
ATOM	1504	CB	LEU	497	6.710	29.286	26.944	1.00	46.62
ATOM	1505	CG	LEU	497	5.933	29.080	25.640	1.00	50.20
ATOM	1506	CD1	LEU	497	5.886	30.397	24.875	1.00	50.95
ATOM	1507	CD2	LEU	497	6.589	27.990	24.798	1.00	50.91
MOTA	1508	С	LEU	497	8.599	28.135	28.101	1.00	44.94
ATOM	1509	0	LEU	497	9.474	27.516	27.493	1.00	45.03
MOTA	1510	N	GLN	498	8.862	28,927	29.137	1,00	41.14
ATOM	1511	CA	GLN	498	10.221	29.101	29.627	1.00	40.54
ATOM	1512	CB	GLN	498	10.246	30.140	30.743	1.00	43.82
ATOM	1513	CG	GLN	498	11.585	30.270	31.437	1.00	43.37
ATOM	1514	CD	GLN	498	11.539	31.260	32.584	1.00	47.03
ATOM	1515	OE1	GLN	498	10.565	31.308	33.332	1.00	49.18
ATOM	1516	NE2	GLN	498	12.591	32.054	32.727	1.00	45.30
ATOM	1517	С	GLN	498	10.777	27.773	30.145	1.00	39,39
ATOM	1518	ō	GLN	498	11.923	27.422	29.866	1.00	35.05
ATOM	1519	N	GLN	499	9.965	27.040	30.902	1.00	36.49
ATOM	1520	CA	GLN	499	10.391	25.748	31.434	1.00	36.91
ATOM	1521	СВ	GLN	499	9,314	25.155	32.344	1.00	38.84
ATOM	1522	CG	GLN	499	9.155	25.825	33.703	1.00	41.33
ATOM	1523	CD	GLN	499	8.039	25.187	34.512	1.00	42.74
ATOM	1524	OE1	GLN	499	7.027	24.760	33.955	1.00	45.44
ATOM	1525	NE2	GLN	499	8,222	25.107	35.829	1.00	43.48
ATOM	1526	C	GLN	499	10.655	24.773	30.285	1.00	35.03
ATOM	1527	Ö	GLN	499	11.446	23.832	30.422	1.00	36.59
ATOM	1528	N	GLN	500	9.980	24.994	29.162	1.00	34.14
ATOM	1529	CA	GLN	500	10.136	24.138	27.990	1.00	34.65
ATOM	1530	CB	GLN	500	9.042	24.436	26.958	1.00	33.90
ATOM	1531	CG	GLN	500	7.672	23.872	27.315	1.00	36.62
ATOM	1532	CD	GLN	500	6.558	24.419	26.435	1.00	40.17
ATOM	1533		GLN		6.660				
ATOM	1534	NE2	GLN	500	5.482		27.064		
ATOM	1535	C	GLN		11.511		27.358	1.00	34.96
ATOM	1536	ō	GLN	500	12.256		27.124	1.00	30.79
ATOM	1537	N	HIS		11.835		27.078	1.00	34.21
ATOM	1538	CA	HIS	501	13.117	25.966	26.480	1.00	37.42
ATOM	1539	CB	HIS	501	13.195	27.476	26.246	1.00	43.08
ATOM	1540	CG	HIS	501	12.043	28.027	25.468	1.00	51.13
ATOM	1541	CD2	HIS	501	11.534		24.263	1.00	53.05
ATOM	1542	ND1	HIS	501	11.264		25.926	1.00	54.54
ATOM	1543	CE1	HIS	501	10.325	29.337	25.037	1.00	54.36
ATOM	1544	NE2	HIS	501	10.325	28.508	24.018	1.00	55.19
ATOM		C	HIS	501	14.255	25.543	27.395	1.00	35.19 35.79
ATOM	1545	0	HIS	501	15.271	24.996	26.945	1.00	36.20
ATOM	1546	N	GLN	502	14.086	25.799	28,685	1.00	33.90
ATOM	1548	CA	GLN	502 502	15.110		28,685	1.00	32.18
	1548	CB	GLN		14.740		29.650 31.033	1.00	35.84
MOTA	1549	CG	GLN	502 502			31.033		32.66
ATOM						27.498			
ATOM	1551	CD	GLN	502	14.420		32.486		36.62
ATOM	1552	OFI	GLN	502	14.102	27.262	33.397	1.00	33.99

MOTA	1553	NE2	GLN	502	14.462	29.348	32.640	1.00	36.22
MOTA	1554	С	GLN	502	15.340	23.932	29.716	1.00	31.79
ATOM	1555	0	GLN	502	16.483	23.479	29.769	1.00	28.00
ATOM	1556	N	ARG	503	14.266	23.146	29.705	1,00	30.99
ATOM	1557	CA	ARG	503	14.436	21.704	29.779	1.00	29.91
ATOM	1558	CB	ARG	503	13.107	21.011	30.052	1.00	32.79
MOTA	1559	CG	ARG	503	13.258	19.541	30.400	1.00	30.84
MOTA	1560	CD	ARG	503	11.930	18.935	30.798	1.00	30.61
ATOM	1561	NE	ARG	503	12.021	17.490	30.992	1.00	28.50
ATOM	1562	CZ	ARG	503	12.489	16.908	32.093	1.00	29.00
ATOM	1563	NH1	ARG	503	12.917	17.640	33.114	1.00	29.85
ATOM	1564	NH2	ARG	503	12.512	15.583	32.180	1.00	33,73
ATOM	1565	C	ARG	503	15.051	21.152	28.496	1.00	29.89
ATOM	1566	0	ARG	503	15.895	20.259	28.548	1.00	29.69
ATOM	1567	N	LEU	504	14.624	21.675	27.351	1.00	28.99
ATOM	1568	CA	LEU	504	15.164	21.223	26.075	1.00	28.90
ATOM	1569	CB	LEU	504	14.566	22.023	24.916	1.00	27.72
ATOM	1570	CG	LEU	504	15.327	21.901	23.593	1.00	30.47
ATOM	1571	CD1	LEU	504	15.252	20.453	23.117	1.00	31.74
ATOM	1572	CD2	LEU	504	14.742	22.843	22.542	1.00	29.85
ATOM	1573	C	LEU	504	16.681	21.419	26.089	1.00	29.69
MOTA	1574	ō	LEU	504	17.439	20.536	25.672	1.00	26.38
ATOM	1575	N	ALA	505	17.114	22.585	26.564	1.00	28.51
ATOM	1576	CA	ALA	505	18.535	22.899	26.632	1.00	25.98
ATOM	1577	СВ	ALA	505	18.735	24.361	27.039	1.00	29.86
ATOM	1578	Ċ	ALA	505	19.261	21.977	27.604	1.00	26.67
MOTA	1579	Õ	ALA	505	20.340	21.462	27.290	1.00	25.54
MOTA	1580	N	GLN	506	18.677	21.771	28.784	1.00	23.59
ATOM	1581	CA	GLN	506	19.299	20.907	29.785	1.00	27.67
ATOM	1582	CB	GLN	506	18.434	20.796	31.043	1.00	27.75
ATOM	1583	CG	GLN	506	18.414	22.027	31.945	1.00	32.48
ATOM	1584	CD	GLN	506	17.111	22.116	32.736	1.00	38.40
ATOM	1585	OE1	GLN	506	16.319	21.167	32.754	1.00	35.97
ATOM	1586	NE2	GLN	506	16.879	23.257	33.386	1.00	38.07
ATOM	1587	C	GLN	506	19.500	19.509	29.217	1.00	24.53
ATOM	1588	ō	GLN	506	20.536	18.889	29.441	1.00	26.42
ATOM	1589	N	LEU	507	18.505	19.017	28.484	1.00	26.78
ATOM	1590	CA	LEU	507	18.578	17.678	27.902	1.00	26.18
ATOM	1591.		LEU	507	17.225	17.286	27.295	1.00	31.48
ATOM	1592	CG	LEU	507	16.052	16.961	28.231	1,00	32.59
ATOM	1593	CD1	LEU	507	14.836	16.561	27.389	1.00	33.78
ATOM	1594	CD2	LEU	507	16,431	15.838	29.174	1.00	30.18
ATOM	1595	CDZ	LEU	507	19.652	17.583	26.819	1.00	26.03
ATOM	1596	0	LEU	507	20.421	16.621	26.771	1.00	
ATOM	1597	N	LEU	508	19.713	18.583	25.950		27.28 24.31
ATOM			LEU	508	20.690	18.557		1.00	
	1598	CA					24.863	1.00	23.68
ATOM	1599	CB	LEU	508	20.339	19.629	23.828	1,00	23.91
ATOM	1600	CG	LEU	508	19.004	19.436	23.102	1.00	24.68
ATOM	1601	CD1	LEU	508	18.905	20.416	21.945	1.00	25.11
ATOM	1602	CD3	LEU	508	18.903	17.994	22.580	1.00	27.53
ATOM	1603	Ċ	LEU	508	22.127	18.727	25.341	1.00	22.93
ATOM	1604	0	LEU	508	23.062	18.200	24.736	1.00	21.36
ATOM	1605	N	LEU	509	22.302	19.451	26.441	1.00	23.86
ATOM	1606	CA	LEU	509	23.637	19.661	26.991	1.00	26.28
MOTA	1607	CB	LEU	509	23.598	20.735	28.095	1.00	28.08
ATOM	1608	CG	LEU	509	23.578	22.214	27.672	1.00	33.98
ATOM	1609	CD1	LEU	509	23.529	23.114	28.921	1.00	35.23
MOTA	1610	CD2	LEU	509	24.818	22.525	26.856	1.00	30.48

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ATOM	1611	С	LEU	509	24.154	18.327	27.540	1.00	26.08
ATOM	1612	0	LEU	509	25.354	18.068	27.549	1.00	23.92
ATOM	1613	N	ILE	510	23.254	17.462	27.993	1.00	24.60
ATOM	1614	CA	ILE	510	23.712	16.172	28.496	1,00	25.12
AŢOM	1615	CB	ILE	510	22,568	15.368	29.161	1.00	28.51
ATOM	1616	CG2	ILE	510	23.051	13.965	29,506	1.00	31.67
ATOM	1617	CG1	ILE	510	22.141	16.060	30.459	1.00	31.18
ATOM	1618	CD1	ILE	510	20.712	15.749	30.882	1.00	37.16
ATOM	1619	C	ILE	510	24.337	15.351	27.364	1,00	23.86
ATOM	1620	0	ILE	510	25.225	14.534	27.600	1.00	24.14
ATOM	1621	N	LEU	511	23.889	15.586	26.133	1.00	25.10
ATOM	1622	CA	LEU	511	24.420	14.862	24.977	1,00	25.63
ATOM	1623	CB	LEU	511	23.628	15.225	23.714	1.00	23.89
ATOM	1624	CG	LEU	511	22.152	14.801	23.659	1.00	25,78
ATOM	1625	CD1	LEU	511	21.648	14.920	22.224	1.00	26,55
ATOM	1626	CD2	LEU	511	21.990	13.363	24.146	1.00	26.29
MOTA	1627	C,	LEU	511	25.912	15.152	24.771	1.00	27.10
MOTA	1628	0	LEU	511	26.641	14.332	24.214	1.00	24.98
ATOM	1629	N	SER	512	26.372	16.319	25.213	1.00	24.75
ATOM	1630	CA	SER	512	27.787	16.637	25.076	1.00	23.68
MOTA	1631	CB	SER	512	28.023	18.129	25.358	1.00	26.12
MOTA	1632	OG	SER	512	29.271	18.327	25.986	1.00	37,17
ATOM	1633	C	SER	512	28,594	15.765	26.050	1.00	23.15
ATOM	1634	0	SER	512	29.742	15.383	25.769	1.00	22.15
ATOM	1635	N	AHIS	513	27.993	15.456	27.192	0.50	21.53
MOTA	1636	N	BHIS	513	28.008	15.453	27.202	0.50	20.99
MOTA	1637	CA	AHIS	513	28.645	14.624	28,196	0.50	21.79
ATOM	1638	CA	BHIS	513	28.696	14.607	28.174	0.50	20.94
ATOM	1639	CB	AHIS	513	27.920	14.776	29.536	0.50	23.59
ATOM	1640	CB À	BHIS	513	27.991	14.636	29.536	0.50	21.59
ATOM	1641	ČĢ	AHIS	513	28,145	16.109	30.179	0.50	27.34
ATOM	1642	CG	BHIS	513	28.800	14.032	30.642	0.50	23.94
ATOM	1643	CD2	AHIS	513	29.223	16.616	30.824	0.50	27.56
ATOM ATOM	1644 1645	CD2 ND1	BHIS	513	30.095	14.211 17.117	31.001	0.50 0.50	24.22
ATOM	1646	ND1	AHIS BHIS	513 513	27.204 28.285	13.105	30.160 31.523	0.50	30.62 27.00
ATOM	1647	CE1	AHIS	513	27.693	18.185	30.763	0.50	26.32
ATOM	1648		BHIS	513	29.225	12.740			24,40
ATOM	1649	NES	AHIS	513	28.916	17,908	31.176	0.50	28.30
ATOM	1650	NE2	BHIS	513	30.334	13.396	32.081	0.50	25.54
ATOM	1651	C	AHIS	513	28.666	13.164	27.738	0.50	19.81
ATOM	1652	č	BHIS	513	28.720	13.171	27.652	0.50	19.42
ATOM	1653	ō	AHIS	513	29.601	12.426	28.026	0.50	22.45
ATOM	1654	0	BHIS	513	29.707	12.457	27.809	0.50	22.62
ATOM	1655	N	ILE	514	27.633	12.753	27.015	1.00	20.76
ATOM	1656	CA	ILE	514	27.572	11.396	26.492	1.00	20.94
ATOM	1657	СВ	ILE	514	26.154	11.086	25.953	1.00	27.76
ATOM	1658	CG2	ILE.	514	26.169	9.800	25.123	1.00	28.26
ATOM	1659	CG1	ILE	514	25.185	10.965	27.139	1.00	27.91
ATOM	1660	CD1	ILE	514	23.752	10.649	26.753	1.00	34.31
MOTA	1661	С	ILE	514	28,641	11.256	25.398	1.00	20.66
ATOM	1662	Ō	ILE	514	29.298	10.226	25.285	1.00	22.21
ATOM	1663	N	ARG	515	28.825	12.294	24.589	1,00	20.48
ATOM	1664	CA	ARG	515	29.861	12.243	23.554	1.00	21,98
ATOM	1665	CB	ARG	515	29.861	13.535	22.726	1.00	23.11
ATOM ·	1666	CG	ARG	515	31.003	13.611	21.737	1.00	25.76
MOTA	1667	CD	ARG	515	30.664	12.818	20.491	1.00	28.55
ATOM	1668	NE	ARG	515	29.580	13.482	19.788	1.00	36.24

atom	1,669		arg	515	29.615	13.827	18.508	1.00	38.91
atom	1670	NH1	arg	515	30.689	13.566	17.976	1.00	35.37
ATOM	1671	NH2	ARG	515	28.579	14.459	17.971	1.00	40.27
MOTA	1672	C	ARG	515	31.221	12.087	24.225	1,00	21.29
ATOM	1673	0	ARG	515	32.068	11.305	23.795	1.00	20.06
MOTA	1674	Ŋ	HIS	516	31.420	12.844	25.293	1.00	23.23
MOTA	1675	CA	HIS	516	32.675	12.812	26.034	1.00	24.75
atom	1676	CB	HIS	516	32.566	13.794	27.206	1.00	24.03
Mota	1677	CG	HIS	516	33.826	13.948	27.990	1.00	31.42
ATOM	1678	CD2	HIS	516	34.138	13.587	29.257	1.00	35.87
Mota	1679	NDI	HIS	516	34.938	14,586	27.489	1.00	33.59
MOTA	1680	CE1	HIS	516	35.882	14,613	28.411	1.00	35.70
MOTA	1681	NE2	HIS	516	35.422	14.013	29.495	1.00	33.35
MOTA	1682	C	HIS	516	32.965	11.390	26.537	1.00	24.02
MOTA	1683	0	HIS	516	34.059	10.852	26.362	1.00	23'.66
MOTA	1684	N	MET	517		10.786	27.168	1.00	20.91
MOTA	1685	CA	MET	517	32.109	9.436	27.684	1,00	24,21
ATOM	1686	CB	MET	517	30.837	9.038	28.424	1.00	23.88
ATOM	1687	CG	MET	517	30,607	9.903	29.652	1.00	26,32
MOTA	1688	SD	MET	517	29.435	9.222	30.796	1.00	26,67
ATOM	1689	CE	MET	517	27,914	9.390	29.807	1.00	23,26
MOTA	1690	С	MET	517	32.399	8.448	26.564	1.00	23.26
MOTA	1691	0	MET	517	33.213	7.547	26.728	1.00	26.08
MOTA	1692	N	SER	518	31.736	8.612	25.423	1.00	21.93
MOT	1693	CA	SER	518	31.977	7.717	24.301	1.00	23.08
TOM	1694	СВ	SER	518	30.976	8.027	23.173	1.00	22.02
TOM	1695	OG	SER	518	31.283	7.336	21.978	1.00	24.01
MOTA	1696	C	SER	518	33.432	7.862	23,810	1.00	25,15
TOM	1697	0	SER	518	34.111	6.866	23.532	1.00	22.94
MOTA	1698	N	ASN	519	33.923	9.097	23,713	1.00	22.42
MOTA	1699	CA	ASN	519	35.295	9.309	23.260	1.00	21.87
MOTA	1700	CB	ASN	519	35.605	10.807	23.157	1,00	24.46
TOM	1701	CG	ASN	519	34.864	11.469	22.021	1.00	29.02
TOM	1702	OD1	ASN	519	34.661	10.864	20.965	1.00	31.93
TOM	1703	ND2	asn	519	34.459	12.715	22.224	1.00	28.81
MOT	1704	С	ASN	519	36.292	8,643	24.201	1.00	21.46
TOM	1705	0	ASN	519	37.251	8.015	23.752	1.00	23.56
TOM	1706	N	LYS	520	36.070	8.782	25.504	1.00	23.23
TOM	1707	CA	LYS	520	36.964	8.171	26.488	1.00	26.35
MOTA	1708	CB	LYS	520	36.581	8.592	27.912	1.00	27.53
MOT	1709	CĢ	LYS	520	36.618	10.101	28.174	1,00	33.74
TOM.	1710	CD	LYS	520	37.962	10.710	27.811	1.00	42.09
TOM	1711	CE	LYS	520	39.047	10.307	28.802	1,00	43.97
MOTA	1712	NZ	LYS	520	39.858	11.480	29.254	1.00	48.07
TOM	1713	C	LYS	520	36.899	6.644	26.376	1.00	27.71
TOM	1714	0	LYS	520	37.913	5.957	26.501	1.00	27,15
TOM	1715	N	GLY	521	35,704	6.117	26.141	1.00	25.02
TOM	1716	CA	ĢLY	521	35.562	4.676	26.003	1.00	26.67
TOM	1717	C	GLY	521	36,254	4.168	24.753	1.00	27,06
TOM	1718	Õ	GLY	521	36.924	3.128	24.775	1,00	26.84
TOM	1719	N	AMET	522	36.101	4.893	23.650	0.50	25.87
TOM	1720	N	BMET	522	36.095	4.908	23.658	0.50	27.62
TOM	1721	CA	AMET	522	36.727	4.491	22.401	0.50	27.27
TOM	1722	CA	BMET	522	36.703	4.551	22.384	0.50	30.14
TOM	1723	CB	AMET	522	36.267	5.396	21.260	0.50	26.50
TOM	1724	CB	BMET	522.	36.252	5.525	21.288	0.50	32.46
TOM	1725	CG	AMET	522	34.827	5.162	20.866	0.50	25.05
TOM	1726	CG	BMET	522	35.681	4.854	20.045	0.50	35.70
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	MOTA	1727	SD	AMET	522	34.585	3.587	20.020	0.50	27.07
	ATOM	1728	SD	BMET	522	34.197	5.672	19.408	0.50	40.01
•	MOTA	1729	CE	AMET	522	33.142	4.017	19.031	0.50	31.29
	ATOM	1730	CE	BMET	522	34.733	6.085	17.745	0.50	42.12
	ATOM	1731	C	AMET	522	38.242	4.532	22.512	0.50	28.99
	ATOM `	1732	c	BMET	522	38.224	4.567	22.483	0.50	30.76
	ATOM	1733	0		522					
				AMET		38.939	3.743	21.870	0.50	31.65
	ATOM	1734	0	BMET	522	38.905	3.793	21.807	0.50	32.87
	ATOM	1735	N	GLU	523	38.749	5.452	23.324	1.00	30.85
	ATOM	1736	CA	GLU	523	40.190	5.576	23.513	1.00	34.09
	atom	1737	CB	GLU	523	40,515	6.725	24.480	1.00	35.59
	ATOM	1738	CG	glu	523	40.658	8.079	23.784	1.00	43.35
	ATOM	1739	CD	GLU	523	40.560	9.265	24.739	1.00	46.63
	ATOM	1740	OE1	GLU	523	39.832	10.240	24.416	1,00	47.64
	ATOM	1741	OE2	GLU	523	41,212	9.225	25.805	1.00	43.09
	ATOM	1742	C	GLU	523	40.718	4.260	24.061	1.00	34.62
	ATOM	1743	0	GLU	523	41.733	3.747	23.596	1.00	33.87
	MOTA	1744	N	HIS	524	40.021	3.700	25.042	1.00	36.33
	ATOM	1745	CA	HIS	524	40.455	2.427	25.607	1.00	39.20
	ATOM	1746	CB	HIS	524	39.678	2.093	26.878	1.00	40.75
ı	ATOM	1747	CG	HIS	524	40.061	0.774	27.473	1.00	48.10
	ATOM	1748	CD2	HIS	524	41.192	0.376	28.104	1.00	48.56
	ATOM	1749	ND1	HIS	524	39.247	-0.338	27.412	1.00	48.84
	ATOM	1750	CE1	HIS	524 524	39.859	-1.362	27.412		
									1.00	50.19
	ATOM	1751	NE2	HIS	524	41.041	-0.956	28.407	1.00	51.61
	ATOM	1752	C	HIS	524	40.290	1.282	24.613	1.00	38.06
	ATOM	1753	0	HIS	524	41.226		24.371	1.00	38.18
	ATOM	1754	N	LEU	525	39.101	1.162	24.034	1.00	36.96
	ATOM	1755	CA	LEU	525	38.831	0.093	23.084	1.00	37.40
	ATOM	1756	CB	LEU	525	37.416	0.241	22.514	1.00	35.89
	MOTA	1757	CG	LEU	525	36.268	0.107	23.527	1.00	33.17
	ATOM	1758	CDI	LEU	525	34,936	0,246	22.811	1,00	31.77
	MOTA	1759	CD2	LEU	525	36,343	-1.240	24.238	1,00	35.92
	MOTA	1760	C	LEU	525	39,859	0.057	21.954	1,00	41.32
	ATOM	1761	0	LEU	525	40.244	-1.015	21.487	1.00	40.76
	ATOM	1762	N	TYR	526	40.314	1.227	21.522	1.00	43.68
	ATOM	1763	CA	TYR	526	41.300	1.297	20.449	1.00	49.00
	ATOM	1764	CB	TYR	526	41.376	2.722	19.890	1.00	51.86
	ATOM	1765	CG	TYR	526	42.305	2.878	18.704	1,00	57.70
	ATOM	1766	CD1	TYR	526	41.835	2.718	17.400	1.00	58,93
	ATOM	1767	CE1	TYR	526	42.681	2.875	16.305	1.00	61.21
	ATOM	1768	CD2	TYR	526	43.653	3.200	18,883	1.00	58.58
		1769	CE2	TYR	526	44.510	3.359	17.790	1.00	61.15
	ATOM	1770	CZ	TYR	526	44.016	3.194	16.505	1.00	61.09
	ATOM	1771	ОН	TYR	526	44.851	3.343	15.417	1.00	63,79
	ATOM	1772	C	TYR	526	42.671	0.871	20.964	1.00	50.14
	ATOM	1773	0	TYR	526					50.73
						43.471	0.303	20.223	1.00	
	ATOM	1774	N	SER	527	42.930	1.139	22.240	1.00	52.72
	ATOM	1775	CA	SER	527	44.205	0.790	22.857	1.00	55.88
	ATOM	1776	CB	SER	527	44.351	1.516	24.199	1.00	55.00
	ATOM	1777	OG	SER	527	43.752	0.788	25.257	1.00	52.46
	ATOM	1778	С	SER	527	44.365	-0.718	23.054	1.00	60.39
	ATOM	1779	0	SER	527	45.398	-1.185	23.534	1.00	60.43
	MOTA	1780	N	MET	528	43.335	-1.472	22.678	1.00	63.86
	MOTA	1781	CA	MET	528	43.347	-2.929	22.788	1.00	67.95
	MOTA	1782	CB	MET	528	42.534	-3.381	24.008	1.00	67.85
	ATOM	1783	CG	MET	528	41.237	-2.606	24.222	1.00	70.10
	ATOM	1784	SD	MET	528	39.895	-3.569	24.983	1.00	71.70

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	ATOM	1785	CE	MET	528	39.231	-4.412	23.554	1.00	72.57	
	ATOM	1786	C	MET	528	42.726	-3.502	21.513	1.00	70.33	
	ATOM	1787	0	MET	528	42.170	-4.602	21.513	1.00	72.43	
	ATOM	1788	N	ĻYS	529	42.834	-2.739	20.428	1.00	71,53	
	ATOM	1789	CA	LYS	529	42.274	-3.122	19.136	1.00	72.00	
	MOTA	1790	CB	LYS	529	42.508	-2.004	18.119	1.00	71.30	
	ATOM	1791	С	LYS	529	42.813	-4.439	18.587	1.00	72.47	
	MOTA	1792	0	LYS	529	43.990	-4.762	18.751	1.00	70.37	
	MOTA	1793	N	CYS	530	41.932	-5.191	17.930	1.00	74.48	
	MOTA	1794	CA	CYS	530	42.279	-6.474	17.325	1.00	76.67	
	MOTA	1795	CB	CYS	530	41.004	-7.245	16.952	1,00	77.23	
	ATOM	1796	SG	ÇYS	530	40.447	-8.491	18.146	1.00	79.38	
	ATOM	1797	C	CYS	530	43.098	-6.220	16.065	1.00	78.08	
•	MOTA	1798	0	CYS	530	43.241	-5.076	15.623	1.00	78.81	
	ATOM	1799	N	LYS	531	43.637	-7.289	15.487	1.00	78.22	
	ATOM	1800	CA	LYS	531	44.424	-7.187	14.267	1.00	78.15	
	ATOM	1801	CB	LYS	531	45.600	-8.182	14.305	1.00	78.33	
	MOTA	1802	C	LYS	531	43,508	-7.467	13.067	1.00	77.93	
	ATOM	1803	Ο,	LYS	531	42.549	-6.734	12,839	1.00	78.07	
ζ.	ATOM	1804	N	asn	532	43.784	-8.539	12.328	1.00	77.80	
	MOTA	1805	CA	ASN	532	42,984	-8.902	11.152	1.00	77.30	
	ATOM	1806	CB	ASN	532	43.550		10.521	1.00	77.55	
	ATOM	1807	С	ASN	532	41.485	-9.082	11.423	1.00	77.34	
	ATOM	1808	0	ASN	532	40.904	-10.123	11.118	1.00	78.13.	
	ATOM	1809	N	VAL	533	40.859	-8.055	11.988	1.00	76.13	
	ATOM	1810	CA	VAL	533	39.436	-8.098	12.280	1.00	73.77	
	ATOM	1811	CB	VAL	533	39.155	-7.715	13.752	1.00	73.62	
	ATOM	1812	CG1	VAL	533	39.690	-6.327	14.047	1.00	73.13	
	ATOM	1813	CG2	VAL	533	37.662	-7.782	14.021	1.00	73.14	
	MOTA	1814	C	VAL	533	38.685	-7.143	11.352	1.00	72.97	
	ATOM	1815	0	VAL	533	39.024	-5.960	11.252	1.00	73.91	
	ATOM	1816	N	VAL	534	37.671	-7.666	10.666	1.00	70.02	
	ATOM ATOM	1817 1818	CA CB	VAL	534 534	36.866	-6.867	9.747	1.00	66.70	
	ATOM	1819	CB	VAL	534 534	35.619	-7.646	9.328	1.00	67.32	
	ATOM	1820	0	VAL VAL	534 534	36.463 35.895	-5.541	10.393	1.00	63.87	
	ATOM	1821		PRO	535	36.756	-5.519 -4.415	11.486 9.719	1.00	63.55	
	ATOM	1822	CD	PRO	535	37.424	-4.354	8.408	1.00	60.92 61.01	
	ATOM	1823	CA	PRO	535	36.424	-3.077	10.229	1.00	56.83	
	ATOM	1824		PRO	535	36,867	-2.135	9.107	1.00	58.70	
	ATOM	1825	CG	PRO	535	37.023	-3.009	7.893	1.00	61.55	
	ATOM	1826	c	PRO	535	34.944	-2.902	10.571	1.00	52.90	
	ATOM	1827		PRO	535	34.067	-3.461	9.908	1.00	52.01	
	ATOM	1828	N	LEU	536	34.672	-2.120	11.610	1.00	48.60	
	ATOM	1829		LEU	536	33.301	-1.874	12.042	1.00	45.08	
	ATOM	1830	CB	LEU	536	33.280	-0.796	13.128	1.00	44.35	
	ATOM	1831	CG	LEU	536	32.267	-0.911	14.273	1.00	43.48	
	ATOM	1832	CD1	LEU	536	31.919	0.490	14.745	1.00	43.41	
	ATOM		CD2	LEU	536	31.022	-1.654	13,835	1.00	39.55	
	ATOM	1834		LEU	536		-1.433	10.871	1.00	43.58	
	ATOM		Ō	LEU	536	31.287	-1.862	10.734	1.00	42.14	
	ATOM	1836		TYR	537	32.992	-0,575	10.024	1.00	43.02	
	ATOM	1837		TYR	537	32.269	-0.066	8.866	1.00	43.34	
	ATOM	1838	CB	TYR	537	33.200	0.786	7.997	1.00	44.76	
	ATOM	1839		TYR	537	32.483	1.558	6.913	1.00	48.28	
	ATOM	1840	CD1	TYR	537	32.190	0.964	5.687	1.00	48.46	
	MOTA	1841		TYR	537	31.504	1.660	4.693	1.00	52.48	
	ATOM	1842	CD2	TYR	537	32.073	2.875	7.123	1.00	49.99	
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MOTA	1843	CEZ	TYR	537	31.383	3.584	6.135	1.00	53.73	
atom	1844	CZ	TYR	537	31.100	2.967	4.924	1.00	54.01	
MOTA	1845		TYR	537	30.401	3.648	3.952	1.00	55.90	
ATOM	1846		TYR	537	31.683	-1.199	8.032	1.00	43.15	•
ATOM	1847		TYR	537	30.500	-1.191	7.696	1.00	41.54	
ATOM ATOM	1848 1849	N	ASP	538	32.521	-2.175	7.702	1,00	44.67	
ATOM	1850	CA CB	asp asp	538 538	32.097 33.322	-3.309	6.893	1.00	45.49	
ATOM	1851	CG	ASP	538	34.361	-4.126 -3.284	6.479 5.748	1.00	51.32 56.17	
ATOM	1852	OD1	ASP	538	35.436	-3.820	5.396	1.00	57.29	
MOTA	1853		ASP	538	34.097	-2.079	5.526	1.00	59.24	
ATOM	1854	C	ASP	538	31.071	-4.195	7.587	1.00	43.48	
ATOM	1855	0	ASP	538	30.177	-4.738	6.940	1.00	43.95	
ATOM	1856	N	LEU	539	31.193	-4.345	8.901	1.00	41.57	
ATOM	1857	CA	LEU	539	30.244	-5.157	9.654	1.00	39.11	
ATOM	1858	CB	LEU	539	30,734	-5.351	11.092	1.00	41.88	
ATOM ATOM	1859 1860	CG CD1	LEU	539 538	29.770	-6.065	12.044	1.00	46.11	
ATOM	1861	CD1	LEU	539 539	29.298 30.474	-7.379 -6.319	11.423 13.377	1.00	46.99	
ATOM	1862	C	LEU	539	28.891	-4.451	9.651	1.00	45.76 36.38	
ATOM	1863	ō	LEU	539	27.849	-5.070	9.436	1,00	35.74	
ATOM	1864	N	LEU	540	28.919	-3.146	9.894	1.00	35.50	
ATOM	1865	CA	LEU	540	27.703	-2.336	9.903	1.00	35.59	
MOTA	1866	CB	LEU	540	28.061	-0.877	10.219	1.00	37.63	
MOTA	1867	CG	LEU	540	27.856	-0.252	11.605	1.00	40.28	
ATOM	1868	CD1	LEU	540	27.526	-1.299	12.645	1.00	38.55	
ATOM ATOM	1869 1870	CD2	LEU	540	29.114	0.506	11.985	1.00	41.04	
ATOM	1871	C O	LEU LEU	540 540	27.060 25.846	-2.415	8.510	1.00	35.50	
ATOM	1872	N	LEU	541	27.892	-2.585 -2.289	8.371 7.483	1.00	33.21 37.01	+
ATOM	1873	CA	LEU	541	27.418	-2.340	6.101	1.00	38.51	
ATOM	1874	CB	LEU	541	28.591	-2.152	5.145	1.00	39.67	
ATOM	1875	CG	LEU	541	28,301	-2.112	3.643	1.00	40.92	
ATOM	1876	CD1	LEU	541	27,184	-1.130	3.348	1.00	42.44	
ATOM	1877	CD2	LEU	541	29.572	-1.716	2.908	1.00	44.18	
ATOM	1878	C	LEU	541	26.723	-3.676	5.833	1.00	39.75	
ATOM ATOM	1879 1880	И	LEU GLU	541	25.616	-3.713	5.297	1.00	36.48	
MOTA	1881	CA	GLU	542 542	27.366 26.790	-4.770 -6.097	6,230 6.037	1.00	40.88	
ATOM	1882	CB	GLU	542	27.719	-7.170	6.620	1.00 1.00	41.89 44.11	
ATOM	1883	CG	GLU	542	27.010	-8.457	7.052	1.00	50.60	
MOTA	1884	CD	GLU	542	26.434	-9.245	5.887	1.00	55.80	
MOTA	1885	OE1	GLU	542		-10.117	6.130	1.00	58.81	
ATOM	1886	OE2	GLU	542	26.842	-8.996	4.728	1.00	57.19	
ATOM	1887	C	GLU	542	25.414	-6.195	6.691	1.00	41.58	
ATOM	1888	0	GLU	542	24.472	-6.720	6.102	1.00	42.82	
ATOM	1889	N	MET	543	25.298	-5.686	7.915	1.00	40.09	
ATOM ATOM	1890 1891	ÇA CB	MET	543	24.036	-5.731	8.634	1.00	36.43	
ATOM	1892	CG	MET MET	543 543	24.270 25.137	-5.424 -6.459	10.111 10.808	1.00	39.95	
ATOM	1893	SD	MET	543	24.918	-6.445	12.604	1.00	41.95 47.17	
ATOM	1894	ÇE	MET	543	25.324	-4.749	12.964	1.00	40.88	
ATOM	1895	C	MET	543	23.001	-4.769	8.072	1.00	35.02	
MOTA	1896	0	MET	543	21.808	-5.073	8.048	1.00	35.31	
ATOM	1897	N	LEU	544	23.457	-3.605	7.629	1.00	32.90	
ATOM	1898	CA	LEU	544	22.559	-2.603	7.074	1.00	36.88	
ATOM	1899	CB	LEU	544	23.225	-1.226	7.111	1.00	34.51	
MOTA	1900	CG	LEU	544	23.268	-0.562	8.490	1.00	31.94	

ATOM	1901	CD1	LEU	544	24.284	0.564	8.478	1.00	32.27
MOTA	1902		LEU	544	21.897		8.846	1.00	29.02
MOTA	1903	C	LEU	544	22.148	-2.941	5.640	1.00	38.94
MOTA	1904	0	LEU	544	20.971	-2.842	5.294	1.00	39.52
ATOM	1905	N	ASP	545	23.118	-3.338	4.817	1.00	41.05
ATOM	1906	CA	ASP	545	22.850	-3.685	3.418	1.00	40.78
ATOM	1907	CB	ASP	545	24.159	-3.780	2.620	1.00	37.75
ATOM	1908	CG	ASP	545	23.922	-3.937	1.120	1.00	35.19
ATOM	1909	OD1	ASP	545	24.881	-4.265	0.380	1.00	33.48
ATOM	1910	OD2	ASP	545	22.768	-3.734	0.691	1.00	
ATOM	1911	C	ASP	545	22.700	-5.015	3.349	1.00	42.87
ATOM	1912	õ	ASP	545	22.681	-6.030	2.929	1.00	44.32
ATOM	1913	N	ALA	546	20.853	-5.009	3.755	1.00	43.49
ATOM	1914	CA	ALA	546	20.055	-6.229	3.746	1.00	46.96
ATOM	1915	CB	ALA	546	19.213	-6.305	5.006	1.00	47.82
ATOM	1916	C	ALA	546	19.213	-6.362	2.508	1.00	49.55
ATOM	1917	0	ALA	546	18.804	-5.368	1.883		
ATOM	1918	N	HIS	547	18.895	-7.606	2.152	1.00	48.75 50.98
ATOM	1919	CA	HIS	547	18.042	-7.884	1.006		
ATOM	1920	CB		547			0.369	1.00	53,77
ATOM	1921	CG	HIS HIS	547	18.431	-9.223 -10.382	1.317	1.00	52.69
ATOM	1922	CD2	HIS	547		-10.362	2.242		55.05
ATOM	1923	ND1	HIS	547		-11.329	1.371	1.00	53.94 56.23
ATOM	1924	CE1	HIS	547	19.095	-12,232	2.286	1.00	55.36
ATOM	1925	NE2	HIS	547		-11.906	2.830	1.00	57.01
ATOM	1926	C	HIS	547	16.603	-7.936	1.518	1.00	55.69
ATOM	1927	ō	HIS	547	16.362	-7.796	2.720	1.00	54.30
ATOM	1928	N	ARG	548	15.653	-8.139	0.612	1.00	57.00
ATOM	1929	CA	ARG	548	14.245	-8.212	0.987	1.00	60.65
ATOM	1930	CB	ARG	548	13.432	-7.171	0.208	1.00	62.69
ATOM	1931	CG	ARG	548	14.272	-6.222	-0.637	1,00	67.54.
ATOM	1932	CD	ARG	548	13.448	-5.061	-1.171	1.00	71.92
MOTA	1933	NE	ARG	548	13.702	-3.826	-0,432	1.00	76.95
ATOM	1934	CZ	ARG	548	14.864	-3.178	-0.429	1.00	79.04
ATOM	1935	NH1	ARG	548	15.891	-3.644	-1.128	1.00	80.66
MOTA	1936	NH2	ARG	548	15.001	-2.063	0.278	1.00	80.39
ATOM	1937	C	ARG	548	13.695	-9.608	0.711	1.00	61.65
MOTA	1938	0	ARG	548	12.500	-9.781	0.466	1.00	62.05
MOTA	1939	N	LEU	549	14.576	-10.603	0.756	1.00	62,39
MOTA	1940	CA	LEU	549	14.188	-11.985	0.507	1.00	64.02
ATOM	1941	CB	LEU	549	15.433	-12.828	0.195	1.00	62.14
ATOM	1942	CG	LEU	549	16.461	-12.191	-0.753	1.00	60.76
ATOM	1943	CD1	LEU	549		-13.074	-0.878	1.00	57.77
ATOM	1944	CD2	LEU	549		-11.972	-2,108	1.00	58.38
ATOM	1945	C	LEU	549		-12.574	1.702	1.00	66.65
ATOM	1,946	0	LEU	549		-13.600	1.577	1.00	67.15
ATOM	1947	N	HIS	550		-11.920	2.856	1.00	67.72
ATOM	1948	CA	HIS	550		-12.378	4.065	1.00	69.93
ATOM	1949	СВ	HIS	550		-12.190	5.298	1.00	70.76
ATOM	1950	CG	HIS	550		-13.054	5.306	1.00	71.50
ATOM	1951	CD2	HIS	550		-13.821	4.341	1.00	71.63
ATOM	1952	ND1	HIS	550		-13.172	6.411	1.00	71.98
MOTA	1953	CE1	HIS	550		-13.972	6.126	1.00	72.04
ATOM	1954	NE2	HIS	550		-14.379	4.876	1.00	71.39
ATOM	1955	C	HIS	550		-11.603	4.275	1.00	71.15
ATOM	1956		HIS	550 551		-11.684	5.340	1.00	70.66
ATOM	1957		ALA ALA	551 551		-10.851 -10.057	3.258	1.00	72.22
MOTA	1958	CA	ALA	551	3.319	-10.057	3.338	1.00	73.58

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ATOM	1959	CB	ALA	551	9.904	-9.014	2.221	1.00	73.21
MOTA	1960	C	ALA	551	8.658		3.266	1.00	74.69
MOTA	1961	0	ALA	551	7.684	-10.474	2.621	1,00	76.12
ATOM	1962	OXT	ALA	551	8.651	-12.025	3.852	1.00	73.79
HETATM	1963	C10	OHT	600	30.581	1.481	29.471	1.00	26.84
HETATM	1964	Ç9	THG	600	30.713	-0.043	29.358	1,60	22.85
HETATM	1965	C8	OHT	600	31.366	-0.385	28.037	1.00	25.56
HETATM	1966	C11	OHT	600	32.761		27.916	1.00	27.51
HETATM	1967	C16	OHT	600	33.218	0.797	26.797	1.00	28.35
HETATM	1968	C15	OHT	600	34.551	1.237	26.747	1.00	30.39
HETATM	1969	C14	OHT	600	35.443	0.923	27.792	1.00	30.23
HETATM	1970	C13	THO	600	35.004	0.185	28.890	1.00	31.45
HETATM	1971	C12	OHT	600	33.666	-0.241	28.955	1.00	27.93
HETATM	1972	Ç7	OHT	600	30.682	-1,089	27.077	1.00	24.41
HETATM	1973	C1	OHT	600	29.211	-1.258	27.052	1.00	24,26
HETATM	1974	C2	OHT	600	28.644	-2,526	26.706	1.00	25.92
HETATM	1975	C3	OHT	600	27.254	-2.668	26.580	1.00	26.32
HETATM	1976	C4	OHT	600	26.438	-1.553	26.813	1.00	29.02
HETATM	1977	04	OHT	600	25,072	-1.605	26.716	1.00	28.42
HETATM	1978	Ç5	OHT	600	26.980	-0.286	27.130	1,00	26.98
HETATM	1979	C6	OHT	,600	28,362	-0.147	27.231	1.00	25.23
HETATM	1980	C17	OHT	600	31.370	-1.692	25.942	1.00	26.61
HETATM	1981	C18	OHT	600	32.508	-2.498	26.151	1.00	26.77
HETATM	1982	C19	OHT	600	33.166	-3.052	25.072	1.00	27.50
HETATM	1983	C20	OHT	600	32.676	-2.794	23.786	1.00	27.50
HETATM	1984	020	OHT	600	33.206	-3.566	22.795	1.00	31.35
HETATM	1985	C23	OHT	600	33.009	-3.135	21.448	1.00	40.09
HETATM	1986	C24	OHT	600	34.226	~3.490	20.575	1.00	44.80
HETATM	1987	N24	OHT	600	34.141	-4.901	20.203	1.00	49.00
HETATM HETATM	1988	C25	OHT	600	33.375	-5.040	18.933	1.00	51.64
HETATM	1989 1990	C26 C21	OHT OHT	600	35.495	-5.459	20,004	1.00	52.06
HETATM	1991.		OHI	600 600	31.540 30.892	-2,005 -1.450	23.558 24.645	1.00	27.19 27.92
HETATM	1992	01	нон	1	20.714	-12.010	23.057	1.00	27.20
HETATM	1993	01	нон	2	22.563	-0.070	25.819	1.00	25.77
HETATM	1994	01	нон	3	25.183	19.202	23.149	1.00	42.52
HETATM	1995	01	нон	4	35.158	5.823	37.390	1.00	33.92
HETATM	1996	01	нон	5	22.116	-9.922	18.914	1.00	30.18
HETATM	1997	01	нон	6	29.812	6.536	19.652	1.00	26,11
HETATM	1998	01	нон	7	13.362	4.463	20.376	1.00	29.40
HETATM	1999	01	нон	8	19.799		20.187	1.00	28.70
HETATM	2000	01	нон	9	21,205	1.466	23,794	1.00	22.47
HETATM	2001	01	нон	10	21.177	-4.961	29.066	1.00	33.00
HETATM	2002	01	нон	11	18.591	1.863	20.518	1.00	32.59
HETATM	2003	01	нон	12	16.298	21.566	15.992	1.00	33,42
HETATM	2004	01	нон	13	18.611	1.976	24.494	1.00	29.70
HETATM	2005	01	нон	14	38.009	8.910	21.156		39.92
HETATM	2006	01	HOH	15	26.549	11.664	18.080	1.00	30.25
HETATM	2007	01	HOH	16	20.282	-4.239	26.512	1.00	32.70
HETATM	2008	01	HOH	17	32.858	8.754	20.237	1,00	29.88
HETATM	2009	01	HOH	18	8.497	16.136	29.934	1.00	46.80
HETATM	2010	01	НОН	19	21.940	19.301	31.632	1.00	35.72
HETATM	2011	01	нон	20	35.153	2.682	14.122	1.00	41.02
HETATM	2012	01	нон	21 .	20.358	-2.268	21.013	1.00	29.43
HETATM	2013	.01	нон	22	35.562	10.036	36.334	1.00	41.37
HETATM	2014	01	нон	23	17.248	18.187	17.571	1.00	33.96
HETATM	2015	01	нон	24	18.445	20.973	12.346	1.00	43.44
HETATM	2016	01	нон	25	12.152	23.054	33.132	1.00	36.04

HETATM	2017	01	нон	26	13.181	22.222	9.699	1.00	37.03
Hetatm	2018	01	нон	27	19.399	-6.090	12.808	1.00	44.86
HETATM	2019	01	нон	28	37.895	13.599	31.395	1.00	47.26
HETATM	2020	01	нон	29	11.570	6.212	7,962	1.00	51.10
HETATM	2021	01	нон	30	20.172	-2,568	23.445	1.00	51.70
HETATM	2022	01	нон	31	36.402	-5.369	23.729	1.00	58.20
HETATM	2023	01	нон	32	25.127	13.802	19.187	1.00	35.29
hetatm	2024	01	HOH	33	23.181	4.937	38.538	1.00	33.77
HETATM	2025	01	нон	34	20.550	0.421	21.276	1.00	29.12
HETATM	2026	01	нон	35	39.599	13.954	27.312	1.00	44.08
HETATM	2027	01	нон	36	26.445	13.863	21.285	1.00	34.97
HETATM	2028	01	HOH	37	13.759	5.079	9.108	1.00	38.54
HETATM	2029	01	нон	38	14.150	24.731	34.529	1.00	49.72
HETATM	2030	01	нон	39	21.060	13.886	-6.319	1.00	59.79
HETATM	2031	01	нон	40	32.215	6.217	8.726	1.00	60.22
HETATM	2032	01	нон	41	35,105	15.704	9.069	1,00	45.15
HETATM	2033	. 01	нон	42	11.427	19.451	9.903	1.00	38.56
HETATM	2034	01	нон	43	19.662	23.472	10.333	1.00	47.71
HETATM	2035	Q1	нон	44	9.231	3.690	12.337	1.00	45,98
HETATM	2036	01	нон	45	15.313	-6.036	17.192	1.00	39.07
HETATM	2037	01	нон	46	15.517	-3.266	17.907	1.00	37.67
HETATM	2038	01	нон	47	28.784	-16.713	25.163	1,00	55,44
HETATM	2039	01	нон	48	27.868	-10.898	28.271	1.00	31.27
HETATM	2040	01	нон	49	6.955	13.568	28.233	1.00	48.83
HETATM	2041	01	нон	50	22.051	-15.030	28.603	1.00	36.91
HETATM	2042	01	нон	51	7.026	31.002	30.284	1.00	46.73
HETATM	2043	01	нон	52	-1.489	12.385	15.164	1.00	51.17
HETATM	2044	01	нон	53	3.499	6.444	14.452	1.00	50.38
HETATM	2045	01	нон	54	18.655	-2.048	25.518	1,00	52.29
HETATM	2046	01	нон	55	28.188	-15.195	38.996	1.00	55,22.
HETATM	2047	01	нон	56	35.275	-10.556	38.061	1.00	57.39
HETATM	2048	01	нон	57	37.771	-9.103	34.605	1.00	54.17
HETATM	2049	01	нон	58	31.403	-3.039	17.983	1.00	46.80
HETATM	2050	01	нон	59	30.455	-6.352	17.005	1.00	47.05
HETATM	2051	01	нон	60	25.985	8.255	0.416	1.00	43.32
HETATM	2052	01	нон	61	35.679	0.749	10.462	1.00	42.99
HETATM	2053	01	нон	62	14.741	4.029	33.936	1.00	49.59
HETATM	2054	01	нон	63	16.333	2.592	35.952	1.00	45.13
HETATM	2055	01	нон	64	23.809	7.186	39.798	1.00	45.36
HETATM	2056	01	нон	65	27.012	-1.948	46.995	1.00	63.39
HETATM	2057	01	нон	66	25.956	-6.422	42.144	1.00	44.94
HETATM	2058	01	НОН	67	23.510	-8.414	39.036	1.00	39.06
HETATM	2059	01	нон	68	41.475	0.971	33.110	1.00	55.50
HETATM	2060	01	нон	69	36.519	8.863	38.836	1.00	41.56
HETATM	2061	01	нон	70	30.111	14.823	12.793	1,00	44.58
HETATM	2062	01	нон	71	26.850	-6.092	1.594	1.00	40.15
HETATM	2063	01	НОН	72	20.448	-3.169	1.055	1.00	42.50
HETATM	2064	01	нон	73	33.896	3.047	16.172	1.00	46.39
HETATM	2065	01	нон	74	16.884	0.446	26.043	1.00	61.50
нетатм	2066	01	нон	75	18.595	0.296	27.866	1.00	47.33
HETATM	2067	01	нон	76	6.166	21.439	19.124	1.00	47.94
HETATM	2068	01	нон	77	18.484	20.060	16.232	1.00	35.52
HETATM	2069	01	нон	78	1.985	23.265	29.187	1.00	46.42
HETATM	2070	01	нон	79	12.729	30.461	27.530		62.79
END	2070	U.L	11OH	, 9	16.163	20.401	27.530	1.00	Q. 0. 13
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